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LCD TV SERVICE MANUAL

CHASSIS : LD84A

MODEL : 26LG3000 26LG3000-ZA

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



CONTENTS

CONTENTS	2
PRODUCT SAFETY	3
SPECIFICATION	6
DOWNLOAD METHOD.....	11
ADJUSTMENT INSTRUCTION.....	21
TROUBLE SHOOTING	23
BLOCK DIAGRAM.....	27
EXPLODED VIEW	29
REPLACEMENT PARTS LIST	32
SVC. SHEET	

SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  in the Schematic Diagram and Exploded View.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

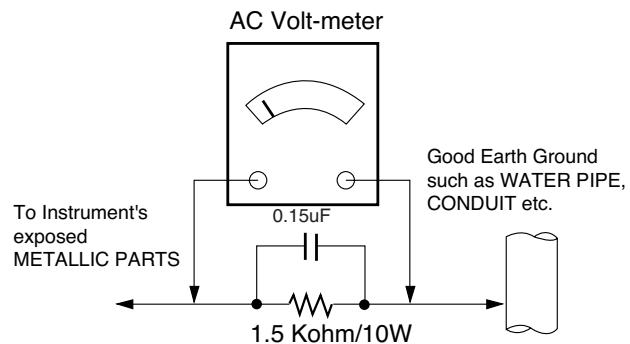
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the **SAFETY PRECAUTIONS** on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
- CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
Do not test high voltage by "drawing an arc".
3. Do not spray chemicals on or near this receiver or any of its assemblies.
4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
CAUTION: This is a flammable mixture.
Unless specified otherwise in this service manual, lubrication of contacts is not required.
5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
Always remove the test receiver ground lead last.
8. *Use with this receiver only the test fixtures specified in this service manual.*
CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called **Electrostatically Sensitive (ES) Devices**. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range of 500°F to 600°F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature.
(500°F to 600°F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique
 - a. Allow the soldering iron tip to reach a normal temperature
(500°F to 600°F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.
 - d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
 2. Securely crimp the leads of replacement component around notch at stake top.
 3. Solder the connections.
- CAUTION:** Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
Carefully crimp and solder the connections.
- CAUTION:** Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE: Specifications and others are subject to change without notice for improvement.

1. Application range

- 1.1 This spec sheet is applied all of the 26" LCD TV
- 1.2 Not included spec and each product spec in this spec sheet apply correspondingly to the following each country standard and requirement of Buyer

2. Specification

Each part is tested as below without special appointment.

- 2.1 Temperature: 25± 5 °C
- 2.2 Relative Humidity: 10 to 90%
- 2.3 Power Voltage: input voltage (90 ~ 264 V, 50/60 Hz ± 3 Hz)
* Standard Voltage of each product is marked by models
- 2.4 Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.
- 2.5 The receiver must be operated for about 30 minutes prior to the adjustment.

3. General Specification (TV)

No	Item	Specification
1	Receiving system	PAL BG/DK/I: SECAM LL'/DK: DVB-T
2	Input voltage	AC 90 ~ 264 V/ 50,60 Hz
3	Market	Europe
4	Screen size	26 inch wide
5	Aspect Ratio	16:9
6	LCD Module	V260B1-L11 NH CMO
7	Operating Environment	Temp: 5 ~ 35 deg Humidity: 10 to 90%
8	Storage Environment	Temp:-20 ~ 50 deg Humidity: 10 to 90%
9	Input Signal	D-sub / Composite / S-Video / Component / SCART / HDMI / CI Slot / SPDIF
10	Power consumption	Normal on < 120W (Depend on screen size) Standby < 1W at 240Vac mains, RC standby mode. Switch off < 1W at 240Vac mains, RC in-active
6.	Vertical refresh rate	56 - 75 Hz
7.	Horizontal frequency	31 - 75 KHz

4. Optical Feature

26"LCD Module-CMO

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	Note
Contrast Ratio	CR		600	800		-	(2)
Response Time	T_R			3	5	ms	(3)
	T_F			5	8		
Center Luminance of White	L_C		400	500			(4)
White Variation	δW				1.3	-	(7)
Cross Talk	CT				4	%	(5)
Color Chromaticity	Red	R_x	$\theta_x=0^\circ, \theta_y=0^\circ$ Viewing Angle at Normal Direction	0.637		-	(6)
		R_y		0.330		-	
	Green	G_x		0.273		-	
		G_y		0.596		-	
	Blue	B_x		0.151		-	
		B_y		0.065		-	
	White	W_x		0.280		-	
		W_y		0.285		-	
	Color Gamut	CG		68	72	%	NTSC Ratio
Viewing Angle	Horizontal	θ_x+	CR ≥ 10	70	80	Deg.	(1)
		θ_x-		70	80		
	Vertical	θ_y+		70	80		
		θ_y-		60	70		

5. External Input Format

5-1. RGB Input

2 LED colors Blue/Red for Power on / sleeping / switch off
Preset timings are as below

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	Remarks
1.	720*400	31.468	70.08	28.321		
2.	640*480	31.469 37.684	59.94 75.00	25.17 31.50	VESA	Input 848*480 60Hz, 852*480 60Hz → 640*480 60Hz Display
3	800*600	37.879 46.875	60.31 75.00	40.00 49.50	VESA	
4.	832*624	49.725	74.55	57.283	Macintosh	
5	1024*768	48.363 56.470 60.123	60.00 70.00 75.029	65.00 75.00 78.75	VESA(XGA)	

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	Remarks
6	1152*864	67.5	75	108	WXGA	
7	1280*720	44.78	60	74.5	WXGA	
8	1280X768	47.78	59.87	79.5	VESA(WXGA)	
9	1360x768	47.72	59.8	84.625	VESA(WXGA)	
10	1440*900	55.5	59.90	88.750	WXGA	

* RGB-PC EDID DATA

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	00	1E	6D	00	26	40	E2	01	00	
10	04	12	01	03	1C	3A	21	78	2A	1F	9C	A3	54	42	97	26
20	0F	47	49	A5	6E	00	81	C0	01	01	01	01	01	01	01	01
30	01	01	01	01	01	01	66	21	50	B0	51	00	1B	30	40	70
40	36	00	B8	88	21	00	00	1E	1A	1D	00	80	51	D0	1C	20
50	40	80	35	00	B0	0E	11	00	00	1C	00	00	00	FC	00	32
60	36	4C	47	33	30	30	30	0A	20	20	20	20	00	00	00	FD
70	00	38	4E	1F	50	11	00	0A	20	20	20	20	20	20	00	C0

5-2. HDMI mode

HDMI video input should support timings defined in CEA 861-B specification with extended EDID blocks
Timing requirements

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock(MHz)	Proposed	Remarks
1	640*480		60		SDTV 480P	4:3
2	720*480	15.734 / 15.6	59.94 / 60	27.00	SDTV 480P	4:3
3	720*480	31.469 / 31.5	59.94 / 60	27.00/27.03	SDTV 480P	16:9
4	720*576	15.625	50	27(54)	SDTV 576I	4:3
5	720*576	31.25	50	54	SDTV 576P	16:9
6	1280*720	37.500	50	74.25	HDTV 720P	
7	1280*720	44.96 / 45	59.94 / 60	74.17/74.25	HDTV 720P	
8	1920*1080	33.72 / 33.75	59.94 / 60	74.17/74.25	HDTV 1080I	
9	1920*1080	28.125	50.00	74.25	HDTV 1080I	
10	1920*1080	26.97 / 27	23.97 / 24	74.17/74.25	HDTV 1080P	
11	1920*1080		25	74.25	HDTV 1080P	
12	1920*1080	33.716 / 33.75	29.976 / 30.00	74.25	HDTV 1080P	
13	1920*1080	56.250	50	148.5	HDTV 1080P	
14	1920*1080	67.43 / 67.5	59.94 / 60	148.35/148.50	HDTV 1080P	

HDMI is major for video input. It also can support RGB mode on above timing.(Just only rear HDMI) The video mode is first priority. RGB timing is design in. The color temperature value will copy from TV mode, no need to check

No	Resolution	H-freq(kHz)	V-freq(Hz)	Pixel clock(MHz)	Proposed	Remarks
1.	720*400	31.468	70.08	28.321		
2.	640*480	31.469 37.684	59.94 75.00	25.17 31.50	VESA	Input 848*480 60Hz, 852*480 60Hz → 640*480 60Hz Display
3	800*600	37.879 46.875	60.31 75.00	40.00 49.50	VESA	
4.	832*624	49.725	74.55	57.283	Macintosh	
5	1024*768	48.363 56.470 60.123	60.00 70.00 75.029	65.00 75.00 78.75	VESA(XGA)	
6	1152*864		75		WXGA	
7	1280*720		60		WXGA	
8	1280X800		75		WXGA	
9	1440*900	55.5	59.90	88.750	WXGA	

* HDMI EDID DATA HDMI1 on the Side

Block 0

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	00	26	01	01	01	01
10	04	12	01	03	80	3A	21	78	2A	1F	9C	A3	54	42	97	26
20	0F	47	49	A5	6E	00	81	C0	01	01	01	01	01	01	01	01
30	01	01	01	01	01	66	21	50	B0	51	00	1B	30	40	70	
40	36	00	B8	88	21	00	00	1E	40	1F	56	1A	51	00	2A	30
50	2C	40	13	04	58	C2	10	00	00	1E	00	00	00	FD	00	38
60	4E	1E	50	11	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	32	36	4C	47	33	30	30	30	0A	20	20	20	20	01	2A

Block 1

00	02	03	21	F1	4E	81	02	03	15	12	13	04	14	05	20	21
10	22	1F	10	23	15	07	50	83	01	00	00	65	03	0C	00	20
20	00	01	1D	00	BC	52	D0	1E	20	B8	28	55	40	34	CD	31
30	00	00	1E	01	1D	80	18	71	1C	16	20	58	2C	25	00	34
40	CD	31	00	00	9E	01	1D	00	72	51	D0	1E	20	6E	28	55
50	00	34	CD	31	00	00	1E	01	1D	80	D0	72	1C	16	20	10
60	2C	25	80	34	CD	31	00	00	9E	8C	0A	D0	90	20	40	31
70	20	0C	40	55	00	34	CD	31	00	00	18	00	00	00	00	F5

HDMI2 on the Rear Cover

Block 0

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	00	26	01	01	01	01
10	04	12	01	03	80	3A	21	78	2A	1F	9C	A3	54	42	97	26
20	0F	47	49	A5	6E	00	81	C0	01	01	01	01	01	01	01	01
30	01	01	01	01	01	01	66	21	50	B0	51	00	1B	30	40	70
40	36	00	B8	88	21	00	00	1E	40	1F	56	1A	51	00	2A	30
50	2C	40	13	04	58	C2	10	00	00	1E	00	00	00	FD	00	38
60	4E	1E	50	11	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	32	36	4C	47	33	30	30	30	0A	20	20	20	20	01	2A

Block 1

00	02	03	21	F1	4E	81	02	03	15	12	13	04	14	05	20	21
10	22	1F	10	23	15	07	50	83	01	00	00	65	03	0C	00	10
20	00	01	1D	00	BC	52	D0	1E	20	B8	28	55	40	34	CD	31
30	00	00	1E	01	1D	80	18	71	1C	16	20	58	2C	25	00	34
40	CD	31	00	00	9E	01	1D	00	72	51	D0	1E	20	6E	28	55
50	00	34	CD	31	00	00	1E	01	1D	80	D0	72	1C	16	20	10
60	2C	25	80	34	CD	31	00	00	9E	8C	0A	D0	90	20	40	31
70	20	0C	40	55	00	34	CD	31	00	00	18	00	00	00	00	05

6. Mechanical specification

NO.	Item		Content			Unit	Remark
1	Product Dimension		Width(W)	Length(L)	Height(H)	mm	
		Before packing	TBD	TBD	TBD	mm	With Stand
		After packing	TBD	TBD	TBD	mm	Box Out Size
2	Product	Only Set	TBD			kg	
		With Box	TBD			kg	

Download Method

1. How to Enter the Service Menu

- 1) Turn on the TV set.
- 2) After displaying, press 'Menu' key.
- 3) Press '0' key (Number key 'zero') four times slowly.
- 4) Showing the Service Menu.

2. F/W Download Method

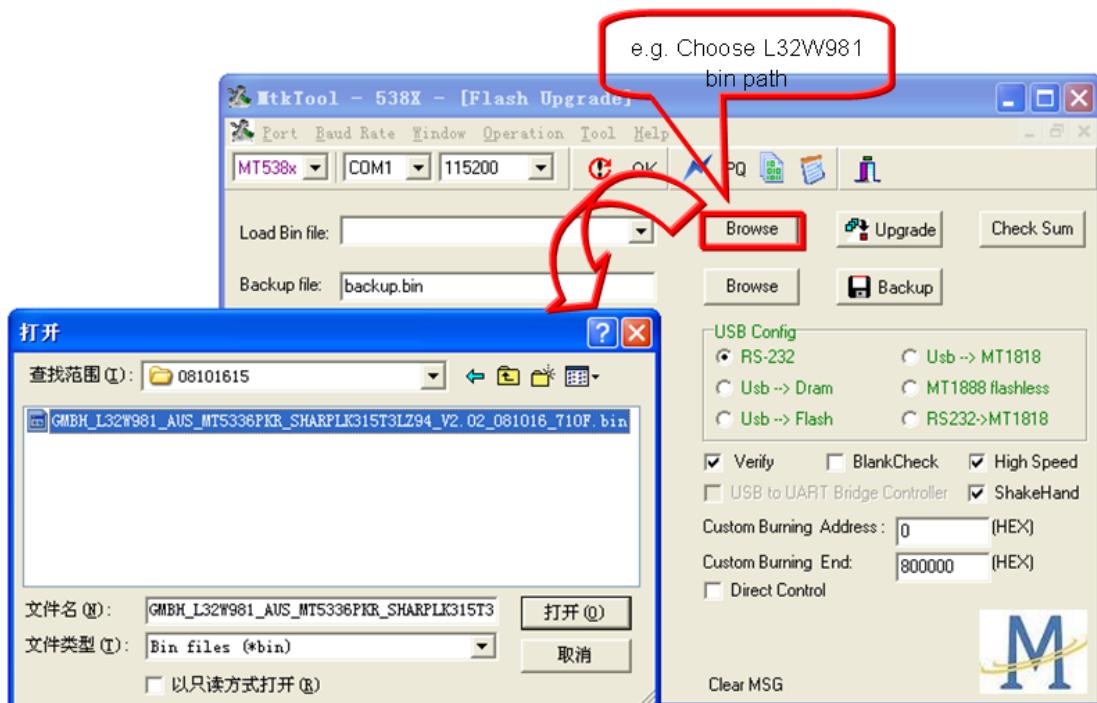
Please refer to the attached F/W download SOP file: "S/W download SOP", MTK Tool, S/W.

Connect the serial cable from PC RS232 port to TV RS-232 port.

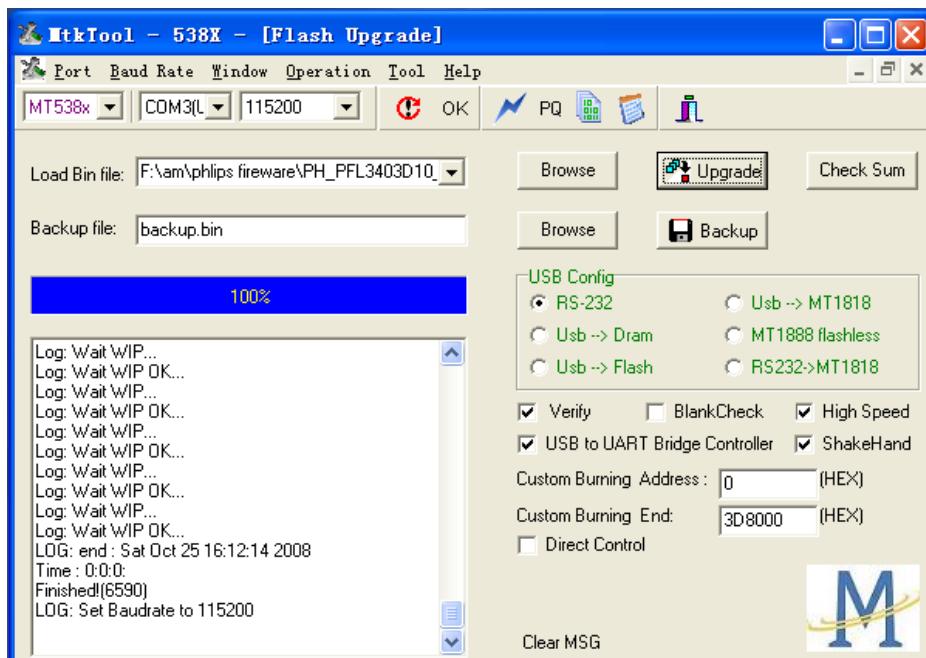
- 1) Run the MTK tool (as picture 1), and select "MTK 538*", "COM 1".
- 2) Press the "Browse", and select the correct S/W. (as picture 2, e.g.L32W981 bin path)
- 3) Press "Upgrade" to start S/W upgrade. (**can't in PC mode, can't plug off when upgrade**)
- 4) When it displays 100% finished, it is OK (about 10 minutes). (as picture 3)
- 5) After download the S/W, press "MENU+1999" to reset the TV.



Picture 1



Picture 2



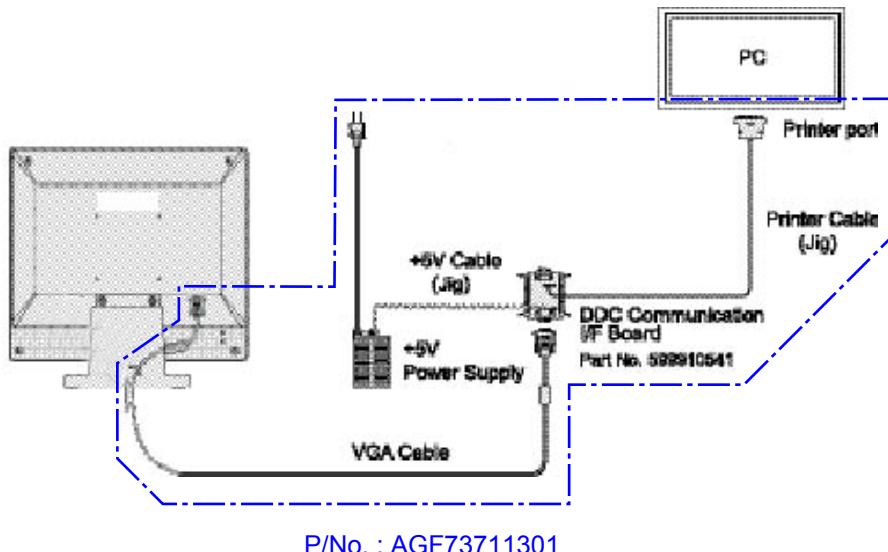
Picture 3

3. EDID Download Method

1) System Connection

Tool list: 715G2005-C	1PCS	EDID JIG (LGE P/No. : AGF73711301)
Printer cable	1PCS	
12V ADAPTER	1PCS	
DVI-HDMI cable	1PCS	
VGA cable	1PCS	

This system should be connected as shown below

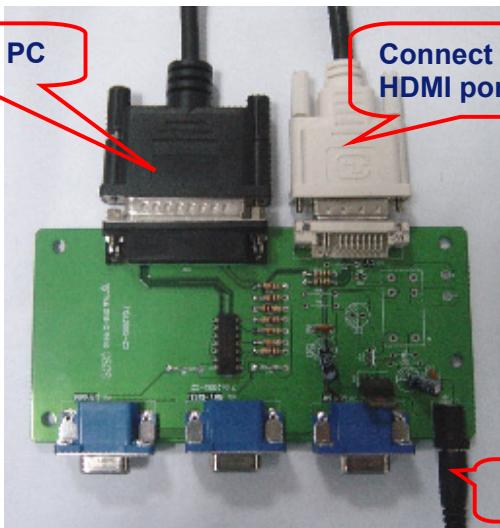


This system should be connected as shown below

Note: Do not connect VGA and DVI-HDMI cable with ISP board at the same time

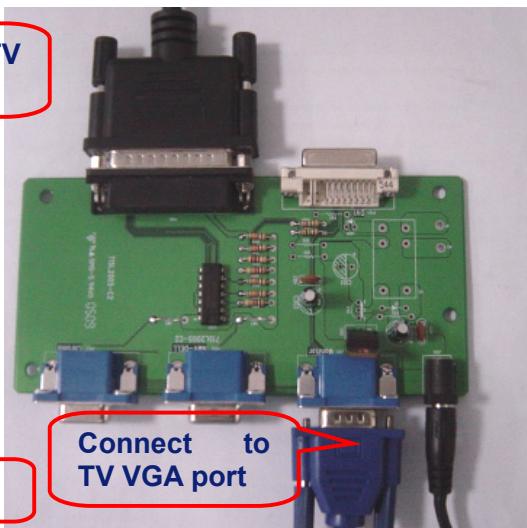
Connect to PC

Connect to TV
HDMI port



DDC connect for HDMI (DVI-HDMI cable)

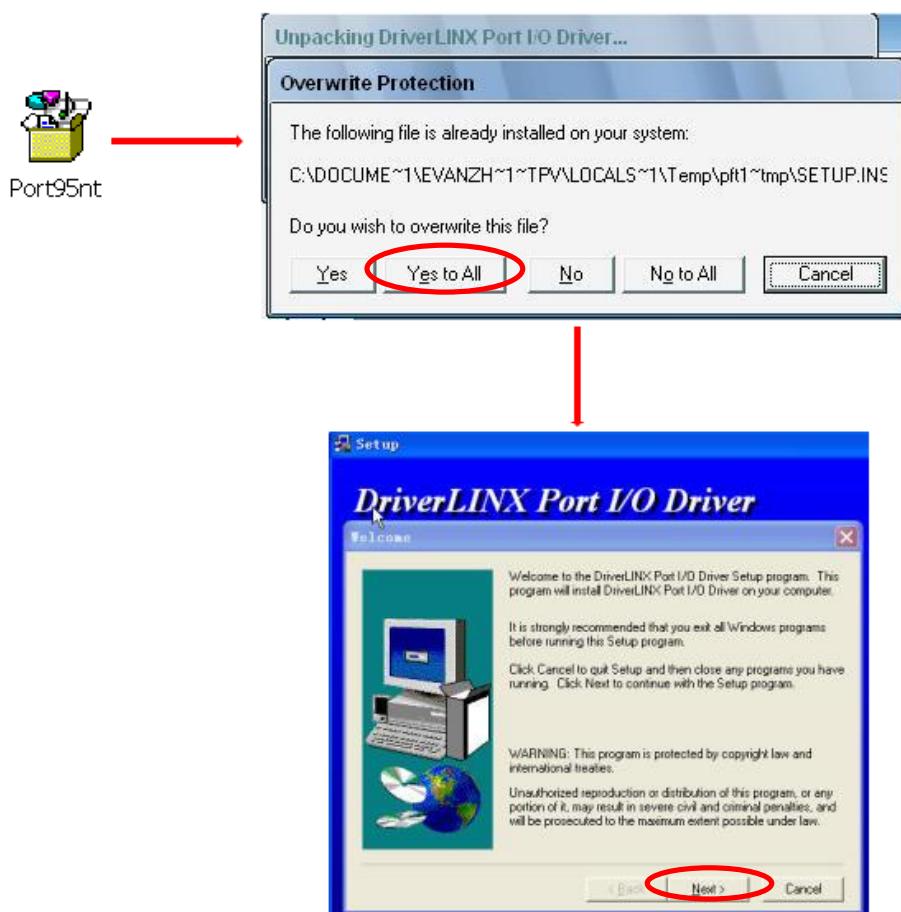
Connect to
TV VGA port



DDC connect for VGA

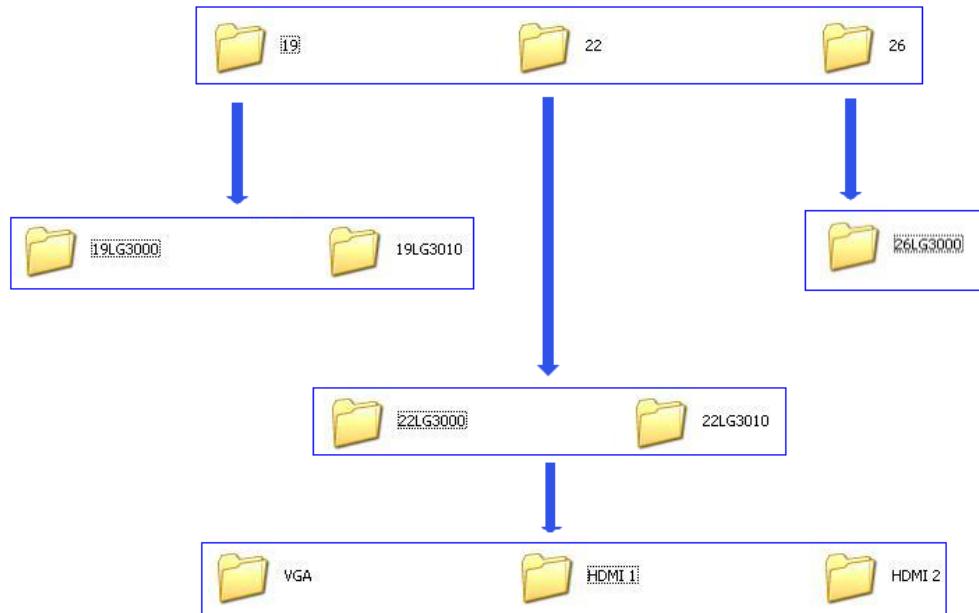
2) Preparations

Running Port95nt.exe to install DriverLINK Port I/O Driver, and restart PC. (as picture 4)



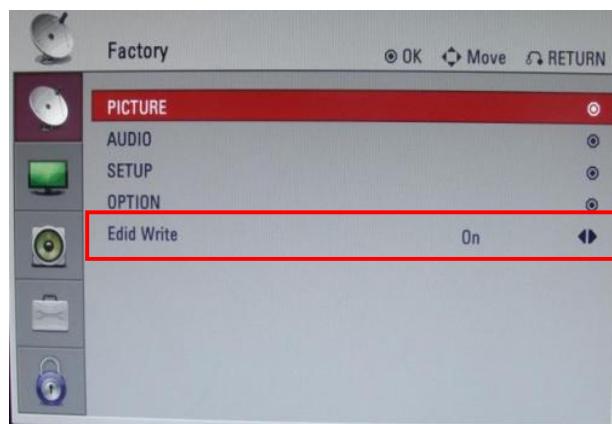
Picture 4

Check the TV model name, find the corresponding EDID date (as picture 5)



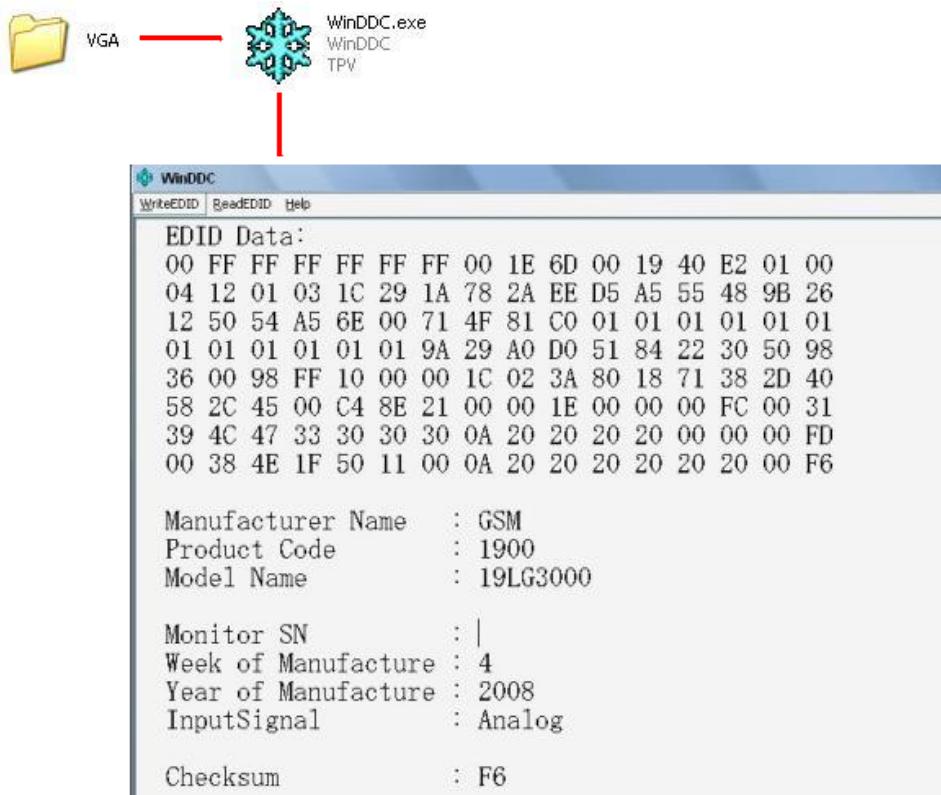
Picture 5

Turn on TV, press "menu"+1998 to enter EDID ISP mode. you will see the following menu. And then EDID ISP mode on, if this menu disappear, EDID ISP mode will turn off automatically.

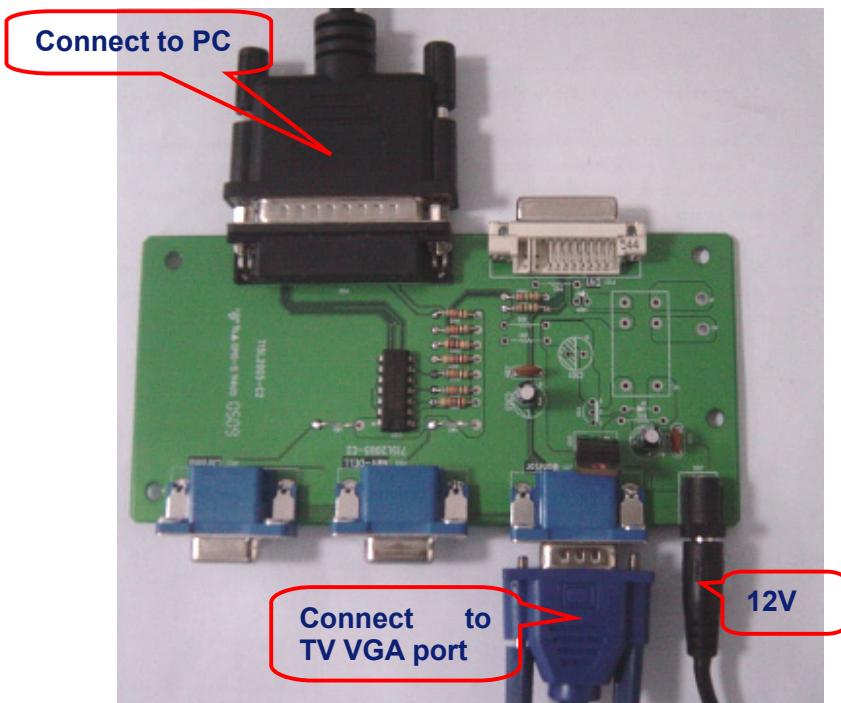


3) VGA EDID update

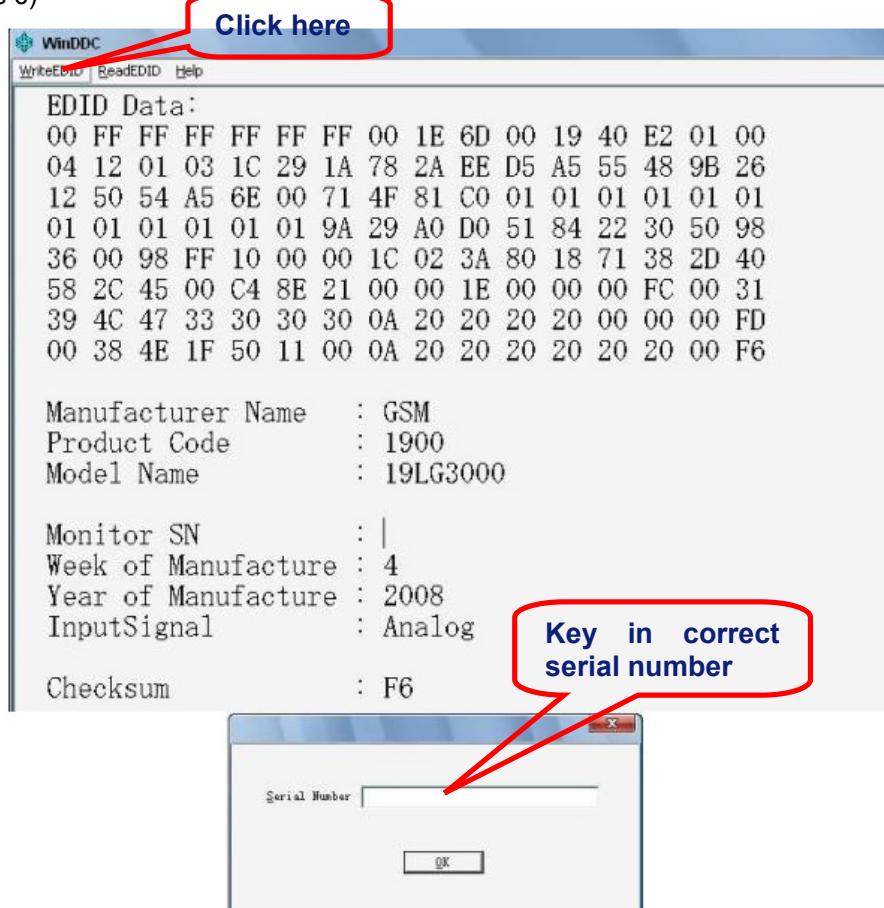
- ① Open the VGA file, and running WinDDC.exe, you will see the following table (e.g.19LG3000)



- ② Check the connection below is right, and TV should in EDID ISP mode, if the EDID ISP mode menu disappear please enter it again.



- ③ Click "Write EDID", appear the dialog box. Key in correct serial number according to rating label of back cover, and click "OK" (as picture 6)



Picture 6

- ④ Appear "write ok" on the screen that indicate you are successful to write.



- ⑤ Appear "IIC Communication Error" on the screen that indicate fail to write. Please check whether the connection is OK and whether the EDID ISP mode menu is disappear.



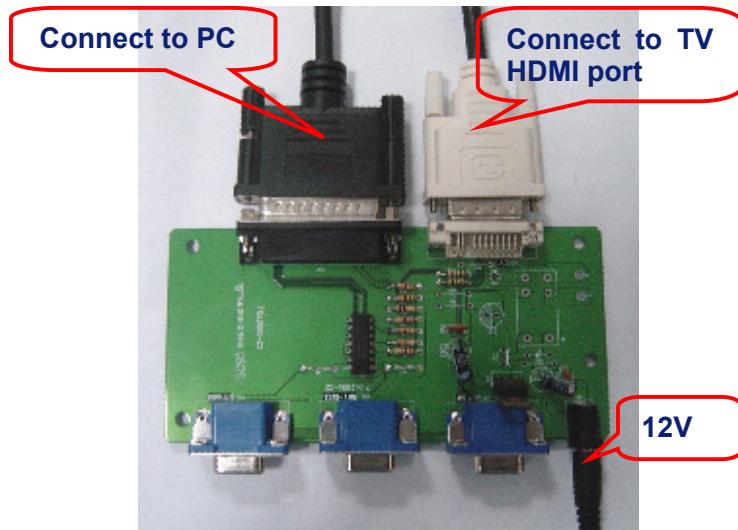
4). HDMI EDID update

Notice: Please write or read the VGA EDID firstly by Winddc.exe

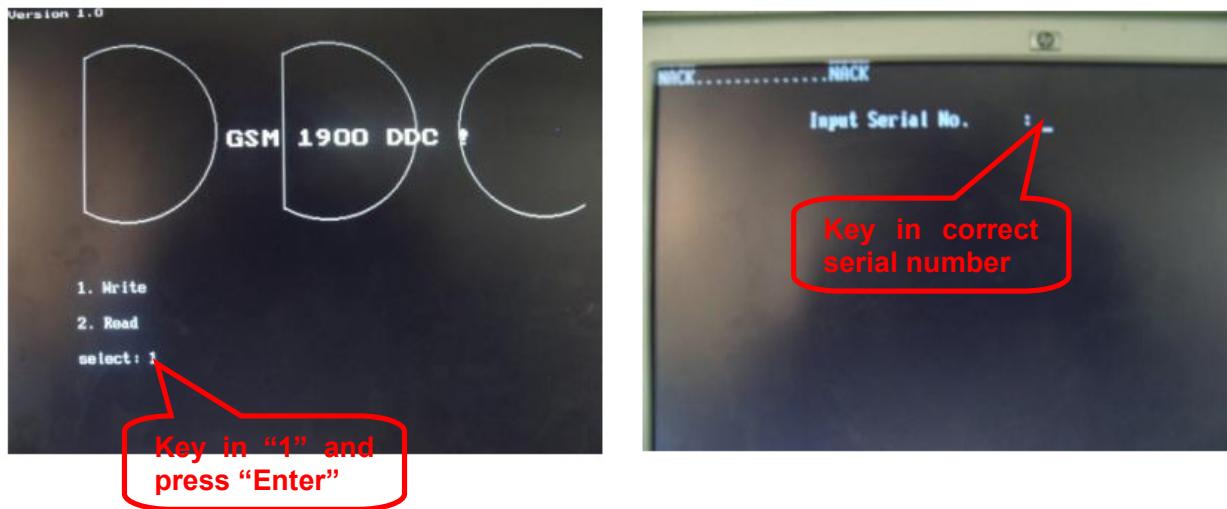
- ① Open the HDMI file, and running DDC20.exe, you will see the following DOS table. (e.g.19LG3000)



② Check the connection below is right, and TV should in EDID ISP mode, if the EDID ISP mode menu disappear please enter it again.



③ “1” means write. “2” means read. Key in “2” and press “Enter” on keyboard can read the HDMI EDID date of this TV. Key in “1” and press “Enter” can update HDMI EDID date, key in correct serial number according to rating label of back cover, and press “Enter” (as picture 7)



Picture 7

- ④ If the screen shows “data compare OK” , it means the EDID writing process is OK. Press “Ctrl” + “C” to exit DOS mode.

```

Product Code : 1900
Week/Year of Manufacture : 23/2001
Model Name : 19LG3000
Video i/p definition : Digital

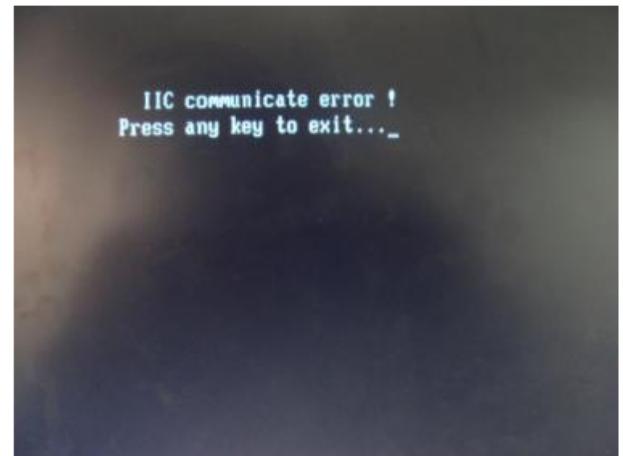
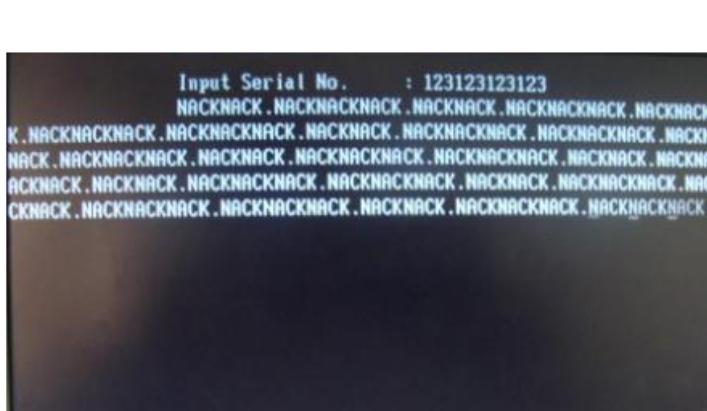
EEROM data table :
00 FF FF FF FF FF FF 00 1E 6D 00 19 01 01 01 01
17 0B 01 03 00 29 1A 78 2A EE D5 A5 55 48 9B 26
12 5B 54 A5 6E 00 71 4F 81 C0 01 01 01 01 01 01
01 01 01 01 01 01 01 01 0D 00 72 51 D8 1E 28 6E 28
55 00 C4 8E 21 00 00 1E 9A 29 A0 D0 51 84 22 30
50 98 36 00 9A 00 11 00 00 1C 00 00 00 FD 00 38
4E 1E 50 11 00 0A 28 28 28 28 28 00 00 00 FC
00 31 39 4C 47 33 38 38 0A 28 28 28 28 01 7A
02 03 21 F1 4E 81 82 03 15 12 13 04 14 05 20 21
22 1F 10 23 15 07 58 03 01 00 00 65 03 0C 00 10
00 01 1D 00 0C 52 D8 1E 28 00 28 55 48 34 CD 31
00 00 1E 01 1D 00 18 71 1C 16 28 58 2C 25 00 34
CD 31 00 00 9E 01 1D 00 72 51 D8 1E 28 6E 28 55
00 34 CD 31 00 00 1E 01 1D 00 D8 72 1C 16 20 10
2C 25 00 34 CD 31 00 00 9E 0C 0A D0 90 20 40 31
20 0C 40 55 00 34 CD 31 00 00 18 00 00 00 00 00 05

data compare OK !

```

The terminal window shows EDID data in hex format. A red box highlights the text "data compare OK !". At the bottom, there is an input field for "Input Serial No." and a status line "by 1530".

- ⑤ If the screen shows as below, it means the EDID writing process is fail. Please check whether the connection is OK and whether the EDID ISP mode menu is disappear.



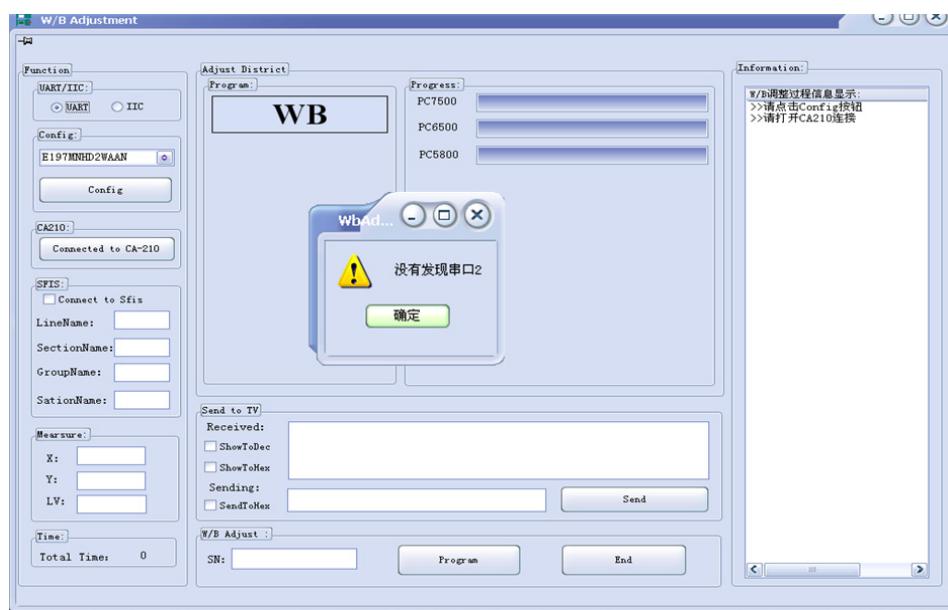
4. Serial Number Download Method

Please refer to the attached Serial number scan file: "Scan serial number SOP" and "LG Serial Number".

Connect the serial cable from PC RS232 port to TV RS-232 port.

- 1) Open the program "WBadjust.exe", press the "Config" option, if serial port displays fail (as picture 8), then you must check whether Com2 exist. After that press the "Program" option to start scanning serial number process.

2) If adjust successfully, display WB; If adjust fail, display WB.



Picture 8

ADJUSTMENT INSTRUCTION

1. Application Range

This spec. sheet is applied to the models of 19LG3000, 22LG3000and 26LG3000

2. Specification.

2.1 Adjustment must be done in the correct sequence.

2.2 The adjustment must be performed at $25 \pm 5^{\circ}\text{C}$ temperature and 10 to 90% relative humidity if there is no specified designation.

2.3 The input voltage of the receiver must be kept between 90 to 264 V, 50/60 Hz ± 3 Hz.

2.4 Before adjustment execute Heat-Run for 30 minutes at RF no signal.

3. ADC Calibration

3.1. ADC Calibration

ADC	Component	RGB-PC
19LG3000	Timing:314 Pattern:185 720P/50HZ	Timing:137 Pattern:42 1024*768/50HZ
22LG3000		

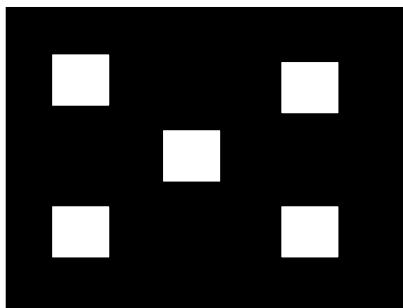
3.1.1 Prepare

1) Power on the Chorma 22291/23291 and power on the PC.

2)Change TV Source to PC mode.

3) Connect PC Com3 to Chroma 22291/23291 RS-232 connector. Make sure USB-to-Serial Com to Com7.

3.1.2 ADC Picture

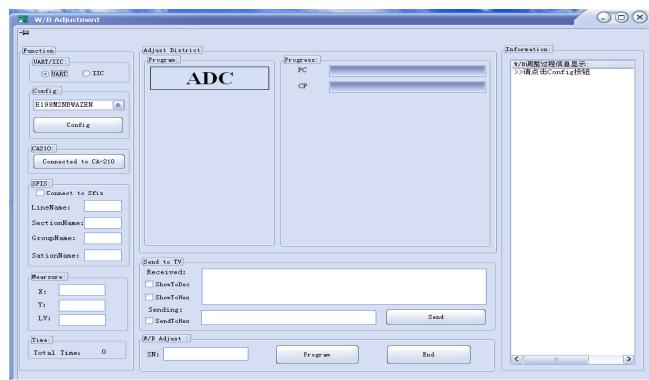


3.1.3 ADC Adjust

1)Open the program, press the Config button, if serial Comm open fail, then you must check whether Com3 and Com7 are exist.

2)If step one is OK, press the PROGRAM button start adjustment.

3) If adjust successful , "ADC" will be green, as ADC . If adjust fail , "ADC" will be red, as ADC .



3.2. W/B Adjustment

- The color temperature at the screen Should be :

	Warm	Normal	Cool
CCT	6500k	9300k	11000k
x	0.314	0.283	0.273
y	0.324	0.297	0.285

Tolerance $\Delta x, \Delta y = +/- 0.020$

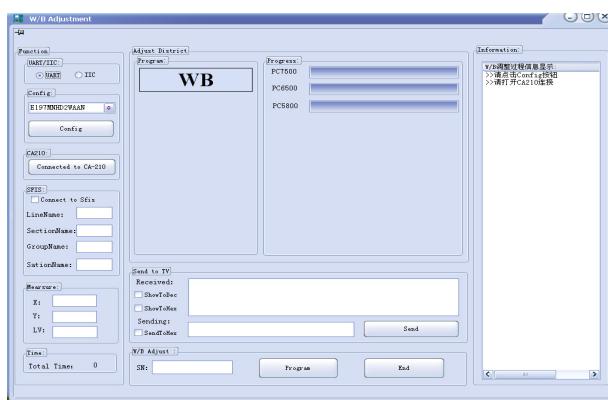
Factory alignment tolerance $\Delta x, \Delta y = +/- 0.005$

3.2.1 Prepare

- Power on the Chroma 22291/23291 and power on the PC.
- Change TV Source to PC mode.
- Connect PC Com3 to Chroma 22291/23291 RS-232 connector. Make sure USB-to-Serial Com to Com7.

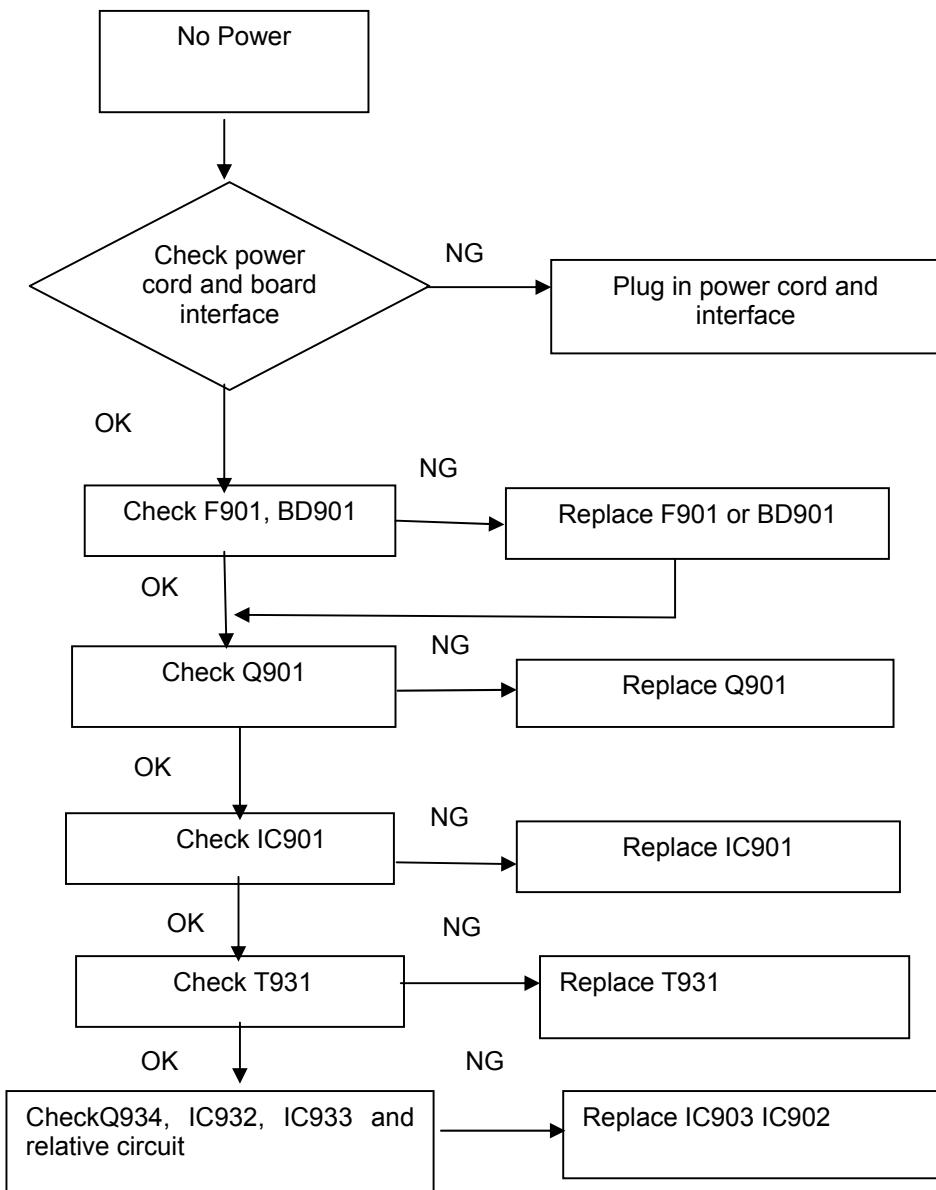
3.2.2 W/B Adjust

- Open the program, press the Config button, if serial Comm open fail, then you must check whether Com3 and Com7 are exist.
- Press Connect to CA-210 button, then wait a minute, until connect OK.
- If step one and step two are OK, press the PROGRAM button start adjustment.

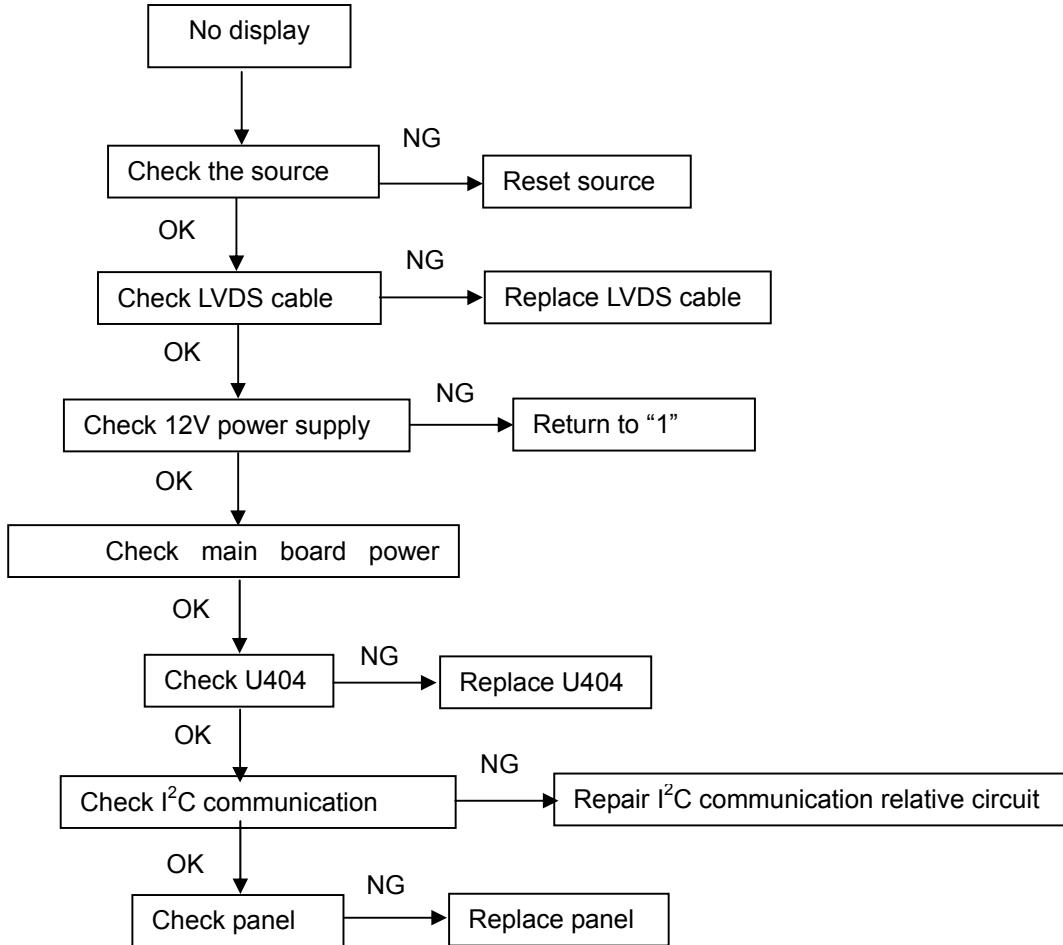


TROUBLE SHOOTING

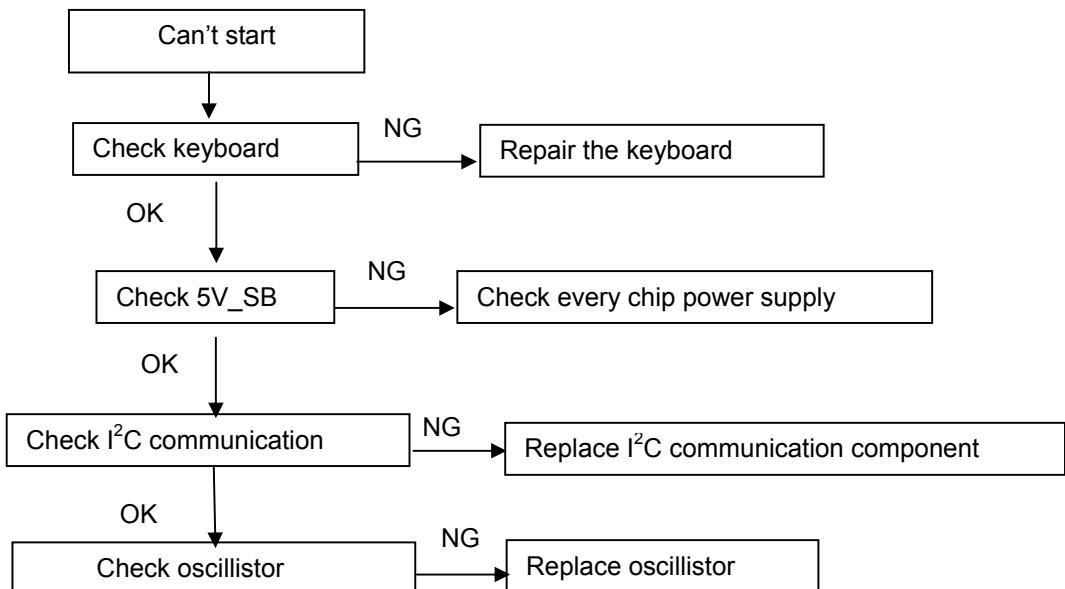
1. No Power (LED Blank)



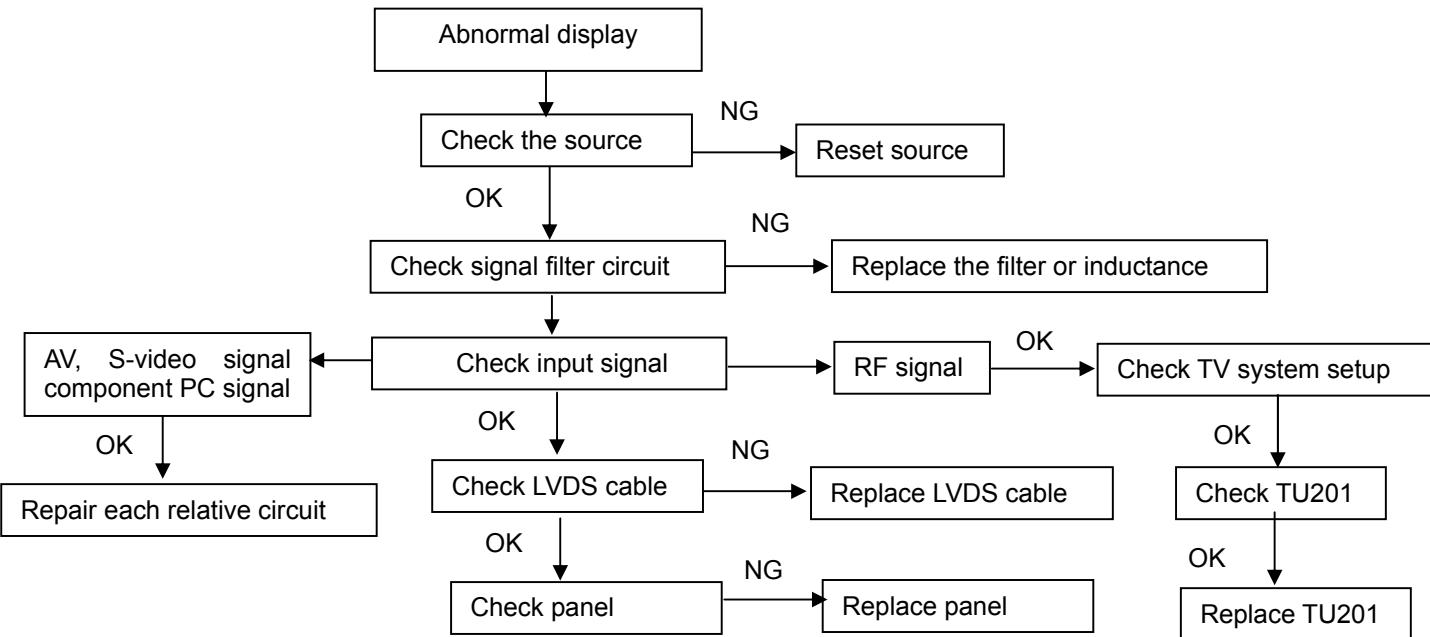
2. No Display



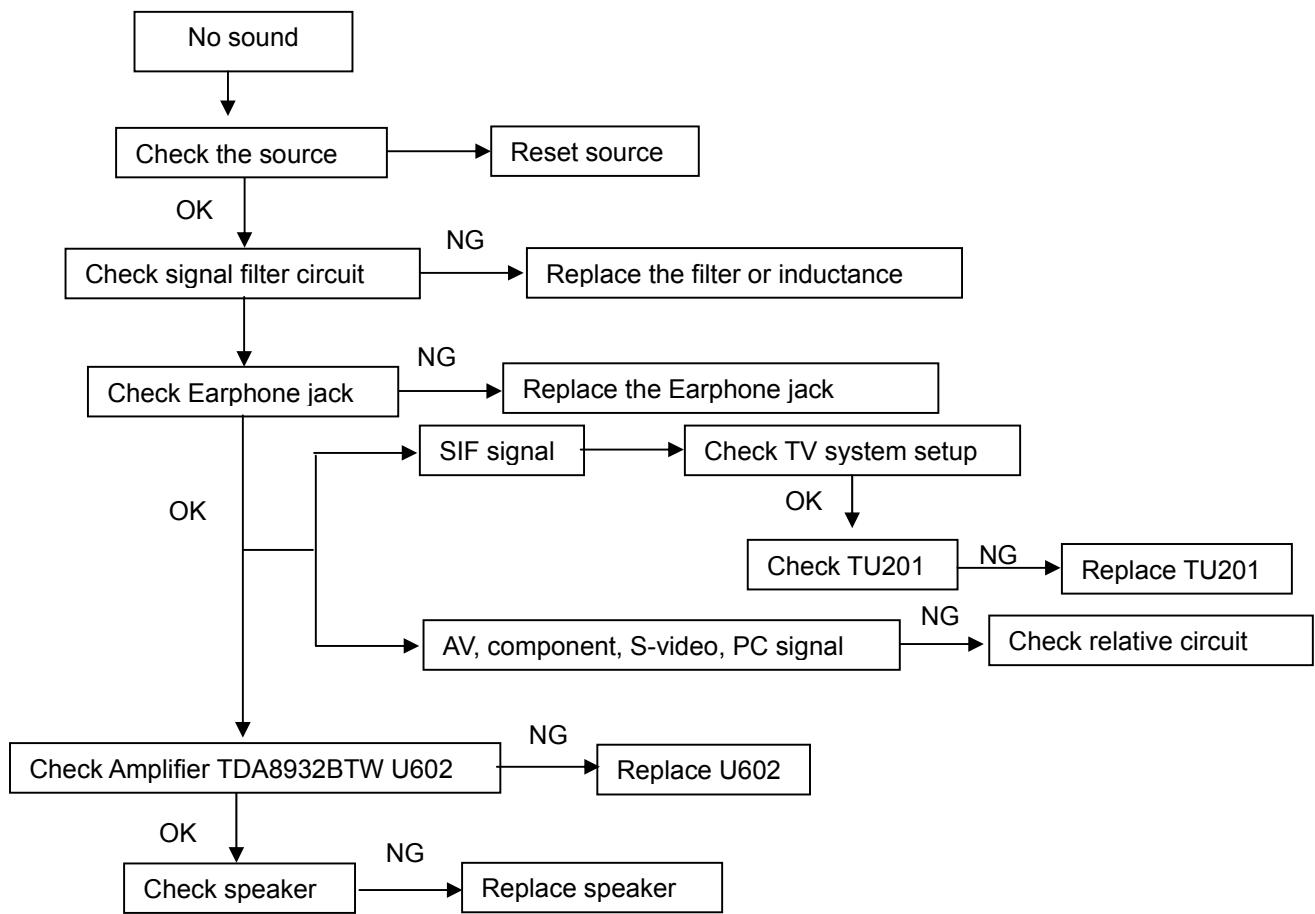
3. Can't start (LED indicator Blank)



4. Abnormal Display

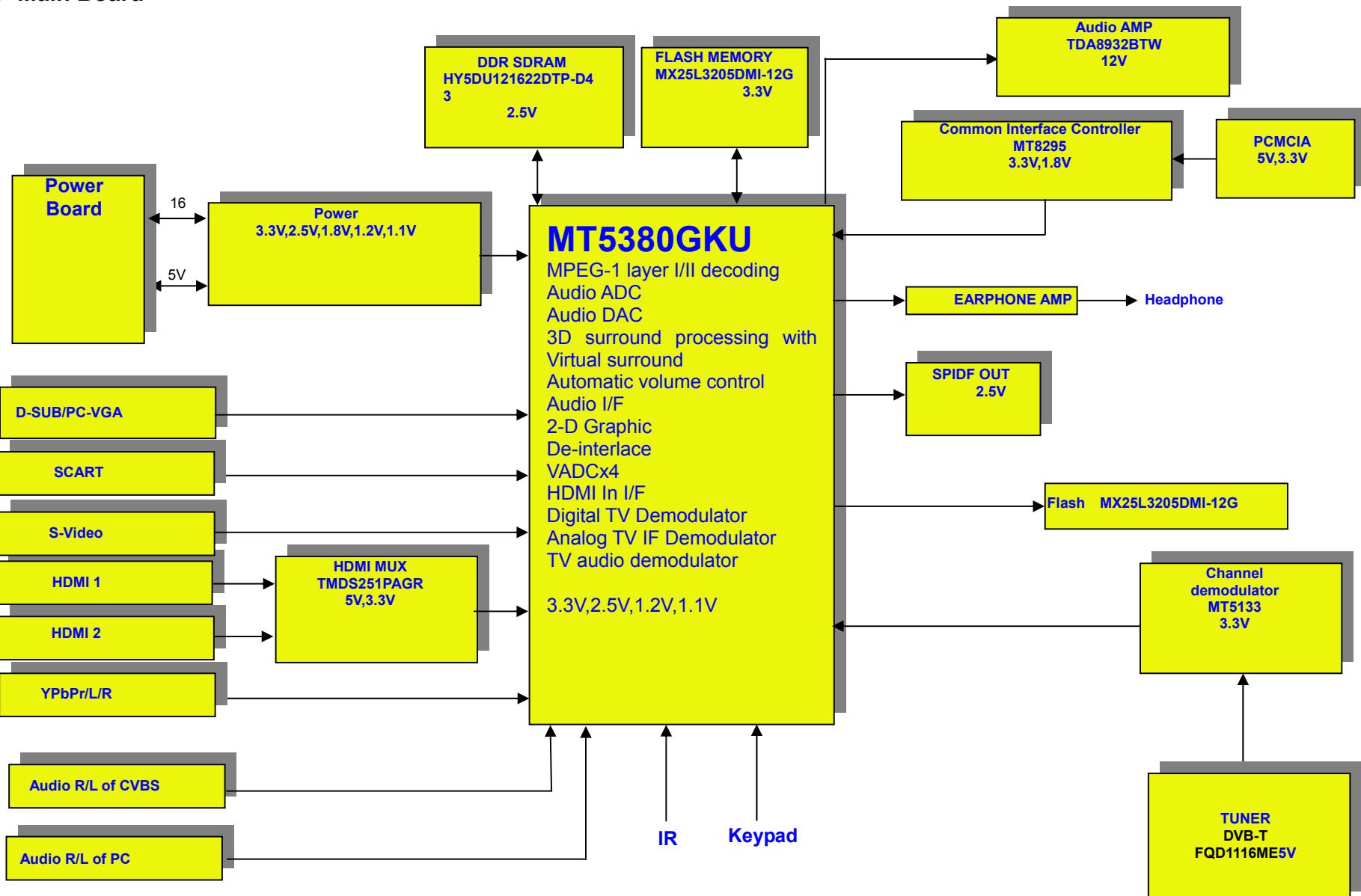


5. No Sound

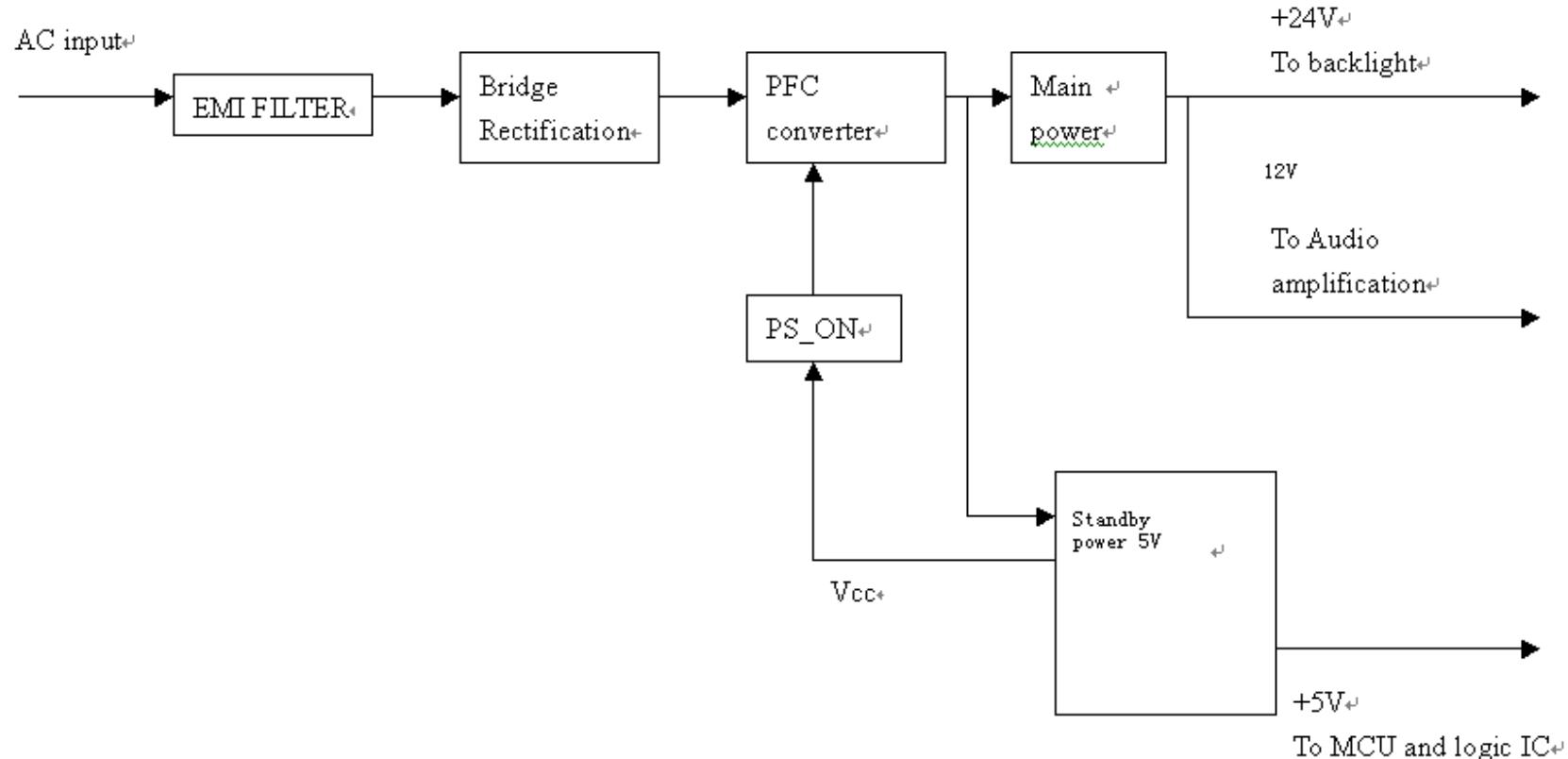


BLOCK DIAGRAM

1. Main Board



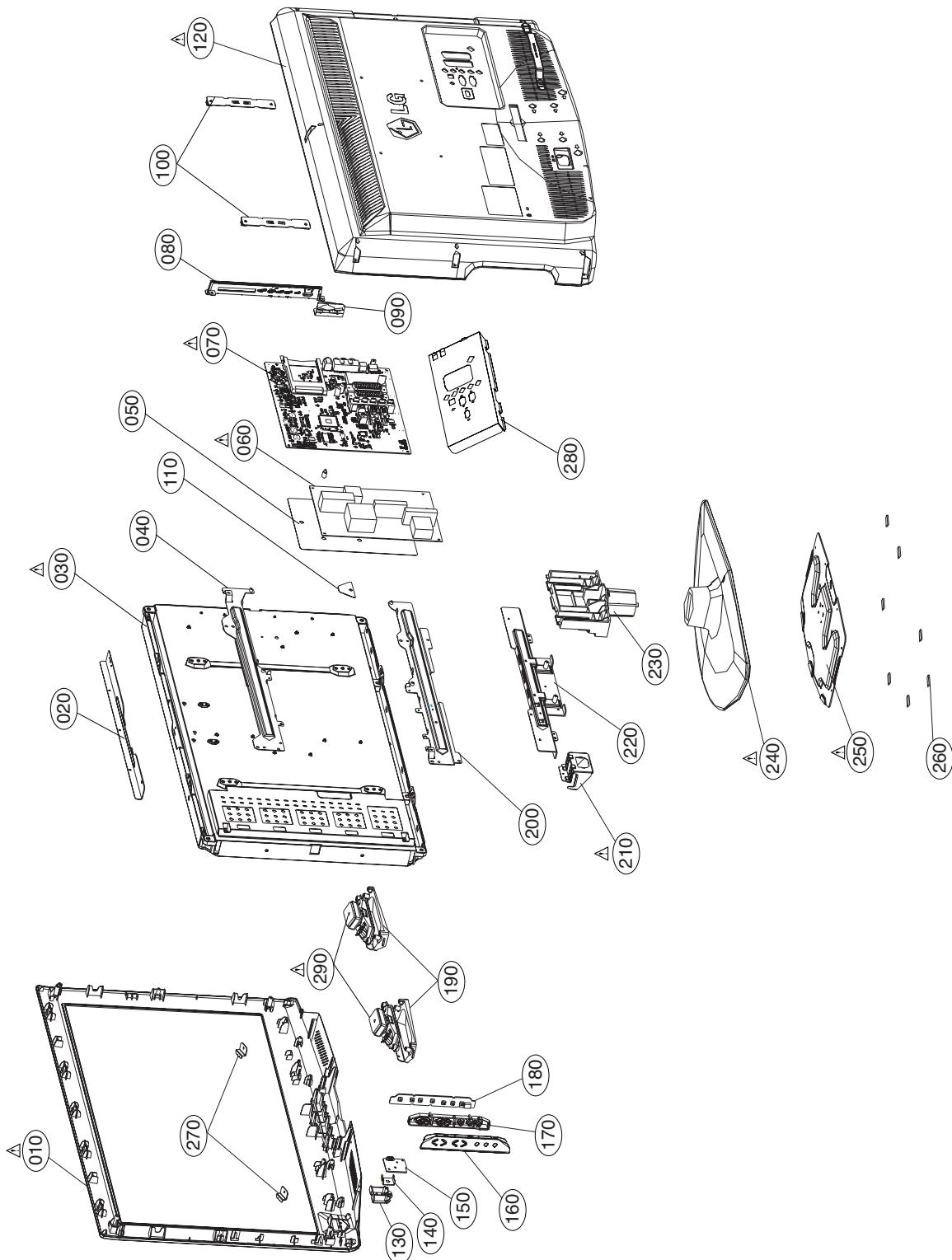
2. Power Board



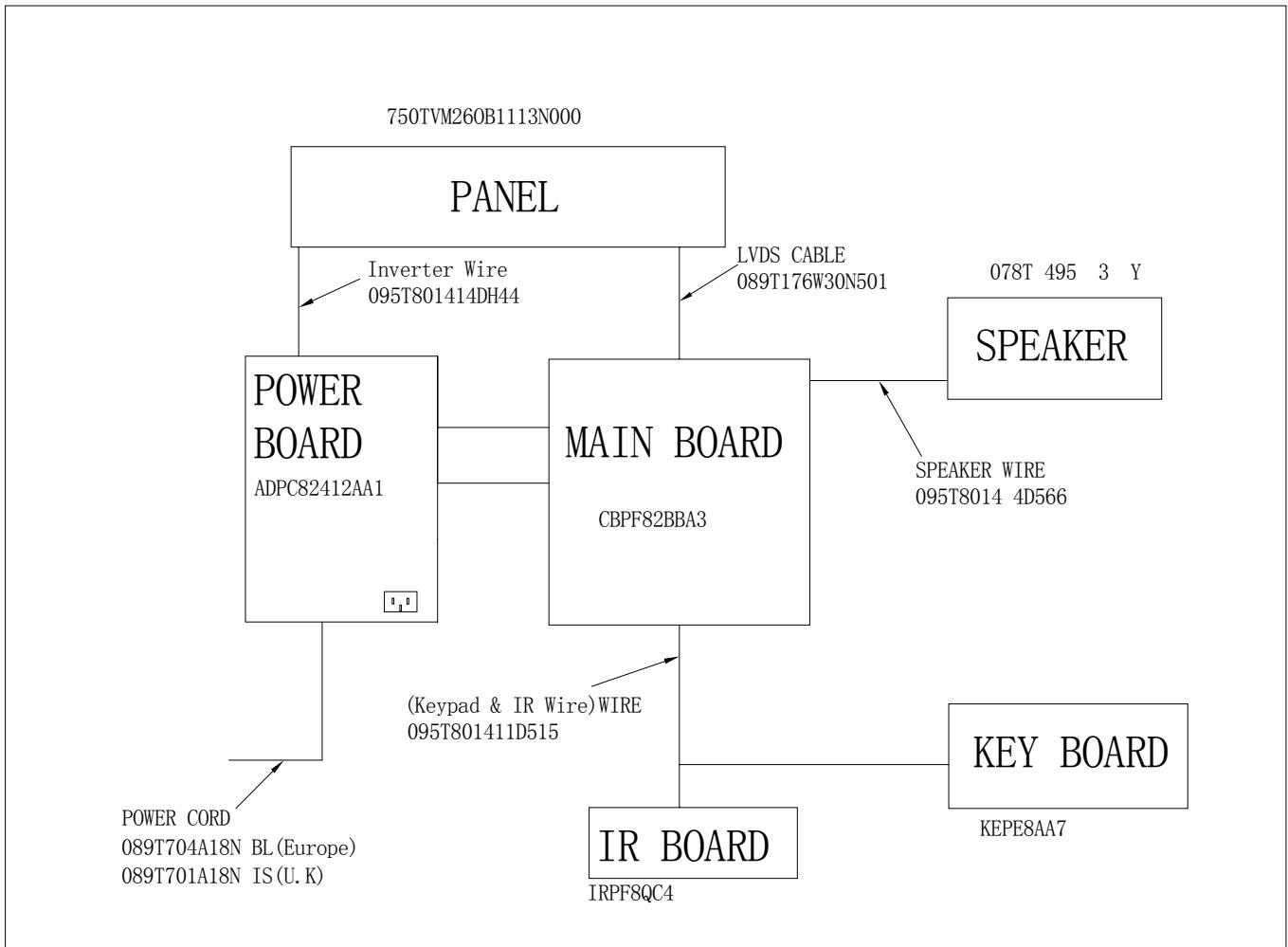
EXPLODED VIEW

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by \triangle in the Schematic Diagram and EXPLODED VIEW.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.



Wiring Diagram



EXPLODED VIEW PARTS LIST

No.	PART NO.	NO. TPV PART	DESCRIPTION
△ 010	ABJ69241601	A34T0780AES1X0200	Cabinet Assembly 26LG3001-ZA _ 26" TPV Service Parts
020	ADV69255001	A15T0415101	Frame Assembly 26LG3001-ZA _ 26" METAL BRACKET Support Top
030	COV30055601	A15T0417101	750TVM260B1113N000 LCD MODULE(CMO) 26LG3000 TPV ODM
040	ADV69255101	750TVM260B1113N000	Frame Assembly 26LG3001-ZA _ 26" Metal Top Bracket
050	MEV58137101	Q52T6025 11650	Insulator PRESS PC 0.5T Triangle type of insulation sheet for power board
△ 060	EBU57406201	ADPC82412AA1	26LG3000 BRAND TPV ODM POWER BOARD FOR (ADPC82412AA1)
△ 070	EBU57405901	CBPF82BBA3	Main Total Assembly 26LG3000 BRAND MAIN BOARD (CBPF82BBA3)
080	ABA69255201	A33T0415AES 1L0100	Bracket Assembly AV 26LG3001-ZA - SIDE AV Bracket_TPV
090	MAZ58135901	Q15T0352101	Bracket PRESS SECC 0.5T AV SECC(EGI) TPV Serive Parts_AV Shield
100	MAZ57580301	A15T0315101	Bracket PRESS H-GI 1.0 SBHG Wall Mount Bracket
110	MEV58135701	Q52T6025 15247	Insulator PRESS PC 0.2 SUB PC 300*300 26LG3001-ZA_TPV
△ 120	ACQ69260601	A34T0781AES 1L0100	Cover Assembly,Rear 26LG3001-ZA - 26" Back Assy
△ 130	MEY57580002	A33T0409BCC 2L0100	Knob MOLD ABS MAIN 1 26LG3001-ZA_ODM POWER Button
△ 140	MEV58137301	Q52T6025 15251	Insulator PRESS PC 0.5t SUB PC 80*80 Block type of IR Lens
150	EBU57410601	IRPF8QC4	Main Total Assembly 19/22/26LG3000 BRAND IR BOARD(IRPF8AA8)
160	MCK58135601	A33T0414AES1L0100	Cover MOLD ABS HF380 ABS, HF-380 CONTROL BUTTON COVER
170	MEY58135801	A33T0418BCJ 1L0100	Knob MOLD ABS HF-380 SUB S.KEY CONTROL KNOB
180	EBU57410501	KEPF8AA7	Main Total Assembly BRAND TPV ODM LOCAL KEY BOARD(KEPF8AA7)
190	ABA69260501	A33T0416AES 1L0100 A33T0417AES 1L0100	Bracket Assembly SPEAKER BRACKET_ TPV SERVICE PARTS
200	MGJ58136201	A15T0418101	Plate,Metal PRESS EGI - FRAME EGI META BAR BOTTOM
△ 210	MGJ58136601	A15T0420101	Plate,Metal PRESS EGI - FRAME EGI METAL AC INLET
220	MGJ58136801	A15T0419101	Plate,Metal PRESS EGI - FRAME EGI 26" BRACKET_BASE SUPPORT
230	MJH58137001	Q37T0094011	Supporter MOLD ABS STAND BODY MIDDLE(HINGE ASSY)
△ 240	MCK58137201	A34T0782AEZ 1L0133	Cover MOLD ABS 26LG3001-ZA ABS STAND BASE COVER
△ 250	MAM58137501	A15T0421101	Base PRESS EGI - BASE 26LG3001-ZA - METAL STAND BASE
260	MCQ57579902	Q12T6100 1	Damper MOLD SANTOPRENE FOOT RUBBER GRAY
270	MAZ58136901	Q15T0375101	Bracket PRESS EGI 0.5T - EGI Metal Bracket Suproter
280	MGJ57579701	A85T0113101 S	Plate,Shield PRESS SPTE 0.5 SHIELD SPTE Main shield
△ 290	COV30053502	078T 495 3 Y	OEM TPV 078T 495 3 Y SPEAKER 26LG3000-ZA 8ohm 5.5W 120X30mm

REPLACEMENT PARTS LIST

				DATE:2008.7.26
*S	*AL	LOC.NO	PART NO.	DESCPICTION/SPECIFICATION
MAIN BORRD				
CAPACITOR				
		C101	065T0402470 31	MLCC 0402 47PF J 50V NPO
		C102	065T0402473 12	MLCC 0402 47NF K 16V X7R
		C103	065T0603105 12	CHIP 1UF 16V X7R
		C104	065T0402473 12	MLCC 0402 47NF K 16V X7R
		C105	065T0402473 12	MLCC 0402 47NF K 16V X7R
		C106	065T0603105 12	CHIP 1UF 16V X7R
		C107	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
		C108	065T0402470 31	MLCC 0402 47PF J 50V NPO
		C109	065T0805475 A5	CHIP 4.7UF 10V X5R
		C110	065T0603105 12	CHIP 1UF 16V X7R
		C111	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
		C112	065T0805225 12	CHIP 2.2UF 16V X7R 0805
		C113	065T0805225 12	CHIP 2.2UF 16V X7R 0805
		C114	065T0402471 32	CHIP 470PF 50V X7R
		C115	065T0402471 32	CHIP 470PF 50V X7R
		C116	065T0402330 31	33PF +-50% 50V NPO
		C117	065T0402330 31	33PF +-50% 50V NPO
		C118	065T0603105 12	CHIP 1UF 16V X7R
		C119	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
		C120	065T0402473 12	MLCC 0402 47NF K 16V X7R
		C121	065T0603105 12	CHIP 1UF 16V X7R
		C122	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
		C123	065T0402470 31	MLCC 0402 47PF J 50V NPO
		C124	065T0603105 12	CHIP 1UF 16V X7R
		C125	065T0402473 12	MLCC 0402 47NF K 16V X7R
		C126	065T0402470 31	MLCC 0402 47PF J 50V NPO
		C127	065T0603105 12	CHIP 1UF 16V X7R
		C128	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
		C129	065T040215031J M	MLCC 0402 CAP 15PF 50V NPO
		C130	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
		C131	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
		C132	065T040215031J M	MLCC 0402 CAP 15PF 50V NPO
		C133	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
		C134	065T040215031J M	MLCC 0402 CAP 15PF 50V NPO
		C135	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
		C136	065T0805225 12	CHIP 2.2UF 16V X7R 0805
		C137	065T0805225 12	CHIP 2.2UF 16V X7R 0805
		C138	065T0402471 32	CHIP 470PF 50V X7R
		C139	065T0402471 32	CHIP 470PF 50V X7R
		C140	065T0402330 31	33PF +-50% 50V NPO

	C141	065T0402330 31	33PF +-50% 50V NPO
	C142	065T0603473 32	CHIP 0.047UF 50V X7R
	C143	065T0603470 32	CHIP 47PF 50V X7R
	C144	065T0402471 32	CHIP 470PF 50V X7R
	C145	065T0402471 32	CHIP 470PF 50V X7R
	C146	065T0603105 12	CHIP 1UF 16V X7R
	C147	065T0603103 32	CHIP 0.01UF 50V X7R
	C148	065T0603150 31	CHIP 15PF 50V NPO
	C149	065T0603105 12	CHIP 1UF 16V X7R
	C150	065T0603104 32	CHIP 0.1UF 50V X7R
	C151	067T215Y4704KT	EC CAP.105 °C
	C153	065T0603105 12	CHIP 1UF 16V X7R
	C154	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C155	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C156	067T 305101 3T	100UF 16V 105C
	C157	065T0603105 12	CHIP 1UF 16V X7R
	C158	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C160	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C161	067T 305221 3T	220UF/16V
	C162	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C163	065T0402105 05	MLCC 0402 1UF K 6.3V X5R
	C164	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C165	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C166	065T0603104 22	CHIP 0.1UF 25V
	C167	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C168	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C169	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C170	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C171	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C172	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C173	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C174	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C175	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C176	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C177	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C178	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C179	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C180	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C181	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C182	065T0603105 12	CHIP 1UF 16V X7R
	C183	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C184	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C185	065T0603105 12	CHIP 1UF 16V X7R
	C186	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C187	065T0402100 31	CAP 0402 10PF J 50V NPO
	C188	065T0402270 31	CHIP 27PF 50V

	C189	065T0402270 31	CHIP 27PF 50V
	C190	065T0402100 31	CAP 0402 10PF J 50V NPO
	C191	065T0402100 31	CAP 0402 10PF J 50V NPO
	C192	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C193	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C194	065T0402100 31	CAP 0402 10PF J 50V NPO
	C195	065T0402100 31	CAP 0402 10PF J 50V NPO
	C196	065T0402100 31	CAP 0402 10PF J 50V NPO
	C197	065T0402100 31	CAP 0402 10PF J 50V NPO
	C198	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C199	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C201	065T0603103 12	CHIP 0.01UF 16V X7R
	C202	065T0603103 12	CHIP 0.01UF 16V X7R
	C203	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C204	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C206	065T0603103 12	CHIP 0.01UF 16V X7R
	C213	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C214	067T215Y4704KT	EC CAP.105 °C
	C216	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C218	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C219	065T0603470 32	CHIP 47PF 50V X7R
	C220	065T0402102 32	1000PF +-10% 50V X7R
	C222	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C223	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C224	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C225	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C226	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C227	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C228	065T0402102 32	1000PF +-10% 50V X7R
	C229	065T0402224 A7	CAP 0402 0.22UF Z 10V
	C230	065T0402224 A7	CAP 0402 0.22UF Z 10V
	C231	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C232	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C233	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C234	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C235	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C236	065T0402224 A7	CAP 0402 0.22UF Z 10V
	C237	065T0402473 12	MLCC 0402 47NF K 16V X7R
	C238	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C239	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C240	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C241	065T0402270 31	CHIP 27PF 50V
	C242	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C243	065T0402270 31	CHIP 27PF 50V
	C244	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C245	065T0805106 A7	CHIP 10UF 10V Y5V 0805

	C246	065T0402100 31	CAP 0402 10PF J 50V NPO
	C248	065T0402220 31	CHIP 22PF 50V NPO
	C249	065T0402220 31	CHIP 22PF 50V NPO
	C250	065T0402100 31	CAP 0402 10PF J 50V NPO
	C251	065T0603339 31	CHIP 3.3PF 50V NPO
	C252	065T0603682 32	CHIP 0.0068UF 50V X7R 0603
	C253	065T0603682 32	CHIP 0.0068UF 50V X7R 0603
	C254	065T0603561 31	CHIP 560PF 50V NPO
	C255	065T0603561 31	CHIP 560PF 50V NPO
	C256	065T0603222 31	CAP CHIP 0603 2200PF J 50V NPO
	C257	065T0603222 31	CAP CHIP 0603 2200PF J 50V NPO
	C258	065T0603561 31	CHIP 560PF 50V NPO
	C259	065T0603561 31	CHIP 560PF 50V NPO
	C409	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C410	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C411	065T0603105 12	CHIP 1UF 16V X7R
	C412	065T0603105 12	CHIP 1UF 16V X7R
	C413	065T0603105 12	CHIP 1UF 16V X7R
	C415	065T0603105 12	CHIP 1UF 16V X7R
	C416	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C417	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C418	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C419	065T0805475 A5	CHIP 4.7UF 10V X5R
	C420	065T0603105 12	CHIP 1UF 16V X7R
	C421	065T0805475 A5	CHIP 4.7UF 10V X5R
	C422	065T0603105 12	CHIP 1UF 16V X7R
	C423	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C424	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C425	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C426	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C427	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C428	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C429	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C430	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C431	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C432	065T0805475 A5	CHIP 4.7UF 10V X5R
	C433	065T0603105 12	CHIP 1UF 16V X7R
	C434	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C435	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C436	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C437	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C438	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C439	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C440	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C441	067T 305100 3T	10UF 16V
	C442	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R

	C443	067T 305101 3T	100UF 16V 105C
	C444	065T0603105 12	CHIP 1UF 16V X7R
	C445	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C446	065T0603105 12	CHIP 1UF 16V X7R
	C447	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C448	065T0805475 A5	CHIP 4.7UF 10V X5R
	C449	065T0603105 12	CHIP 1UF 16V X7R
	C450	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C451	065T0603105 12	CHIP 1UF 16V X7R
	C452	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C453	065T0603105 12	CHIP 1UF 16V X7R
	C454	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C455	065T0805475 A5	CHIP 4.7UF 10V X5R
	C456	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C457	065T0402100 31	CAP 0402 10PF J 50V NPO
	C458	065T0402100 31	CAP 0402 10PF J 50V NPO
	C459	065T0402102 32	1000PF +-10% 50V X7R
	C460	065T0805475 A5	CHIP 4.7UF 10V X5R
	C461	065T0603224 32	MLCC 0603 0.22UF K 50V X7R
	C462	065T0805475 A5	CHIP 4.7UF 10V X5R
	C463	065T0603105 12	CHIP 1UF 16V X7R
	C464	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C465	065T0402102 32	1000PF +-10% 50V X7R
	C466	065T0402102 32	1000PF +-10% 50V X7R
	C467	065T0603105 12	CHIP 1UF 16V X7R
	C468	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C469	065T0603105 12	CHIP 1UF 16V X7R
	C470	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C471	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C473	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C474	065T0402101 31	MLCC 0402 100PF J 50V NPO
	C475	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C476	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C477	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C478	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C501	065T0603105 12	CHIP 1UF 16V X7R
	C502	067T 305100 3T	10UF 16V
	C503	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C504	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C505	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C506	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C507	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C508	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C509	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C510	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C511	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R

	C512	065T0603224 32	MLCC 0603 0.22UF K 50V X7R
	C513	065T0603224 32	MLCC 0603 0.22UF K 50V X7R
	C514	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C515	065T0805475 A5	CHIP 4.7UF 10V X5R
	C516	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C517	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C518	065T0805475 A5	CHIP 4.7UF 10V X5R
	C519	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C520	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C521	065T0805475 A5	CHIP 4.7UF 10V X5R
	C522	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C523	065T0603105 12	CHIP 1UF 16V X7R
	C524	065T0805475 A5	CHIP 4.7UF 10V X5R
	C525	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C526	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C527	065T0805475 A5	CHIP 4.7UF 10V X5R
	C528	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C529	065T0603105 12	CHIP 1UF 16V X7R
	C530	065T0603105 12	CHIP 1UF 16V X7R
	C531	065T0805475 A5	CHIP 4.7UF 10V X5R
	C532	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C533	065T0603101 31	CHIP 100PF 50V NPO
	C534	065T0402472 22	BHIP 4700PF 25V X7R
	C535	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C536	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C537	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C538	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C539	065T0603101 31	CHIP 100PF 50V NPO
	C540	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C541	065T0603101 31	CHIP 100PF 50V NPO
	C542	065T0603105 12	CHIP 1UF 16V X7R
	C543	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C544	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C545	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C546	065T0402471 32	CHIP 470PF 50V X7R
	C547	065T0402471 32	CHIP 470PF 50V X7R
	C548	065T0603105 12	CHIP 1UF 16V X7R
	C549	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C550	065T0402472 22	BHIP 4700PF 25V X7R
	C551	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C552	065T0603509 31	CHIP 5PF 50V NPO
	C553	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C554	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C555	065T0603509 31	CHIP 5PF 50V NPO
	C556	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C557	065T0603509 31	CHIP 5PF 50V NPO

	C558	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C559	065T0603509 31	CHIP 5PF 50V NPO
	C560	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C561	065T0603509 31	CHIP 5PF 50V NPO
	C562	065T0603224 32	MLCC 0603 0.22UF K 50V X7R
	C563	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C564	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C565	065T0402471 32	CHIP 470PF 50V X7R
	C566	065T0402471 32	CHIP 470PF 50V X7R
	C567	065T0402330 31	33PF +-50% 50V NPO
	C568	065T0402330 31	33PF +-50% 50V NPO
	C569	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C601	065T0603104 32	CHIP 0.1UF 50V X7R
	C602	065T0805105 22	CHIP 1UF 25V X7R 0805
	C603	065T0603331 32	CHIP 330PF 50V X7R
	C604	065T0603104 22	CHIP 0.1UF 25V
	C605	065T0805105 22	CHIP 1UF 25V X7R 0805
	C606	065T0603104 32	CHIP 0.1UF 50V X7R
	C607	065T0603153 32	CHIP 0.015UF 50V X7R 0603
	C608	065T0603471 32	CHIP 470PF 50V NPO
	C609	065T0603474 12	CHIP 0.47UF 16V X7R
	C611	064T176J684 0T	FILM CAP 0.68UF 63V
	C612	067T215L681 4N	CAP L105°C 680UF M 25V NCC
	C613	065T0603104 22	CHIP 0.1UF 25V
	C614	065T0603104 22	CHIP 0.1UF 25V
	C615	067T215L681 4N	CAP L105°C 680UF M 25V NCC
	C617	064T176J684 0T	FILM CAP 0.68UF 63V
	C618	067T215Y4704KT	EC CAP.105 °C
	C619	065T0603153 32	CHIP 0.015UF 50V X7R 0603
	C620	065T0603471 32	CHIP 470PF 50V NPO
	C621	065T0603104 22	CHIP 0.1UF 25V
	C622	065T0603104 22	CHIP 0.1UF 25V
	C623	065T0603104 32	CHIP 0.1UF 50V X7R
	C624	065T0805105 22	CHIP 1UF 25V X7R 0805
	C625	065T0603331 32	CHIP 330PF 50V X7R
	C626	065T0603104 22	CHIP 0.1UF 25V
	C627	065T0603104 22	CHIP 0.1UF 25V
	C628	065T0805105 22	CHIP 1UF 25V X7R 0805
	C629	067T215V471 6N	EC L105°C 470UF M 35V NCC
	C630	067T215V471 6N	EC L105°C 470UF M 35V NCC
	C631	067T 3053313PT	E.C 330UF M 16V 8*12
	C632	065T0603104 32	CHIP 0.1UF 50V X7R
	C633	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C634	067T 305221 3T	220UF/16V
	C635	065T0805104 32	CHIP 0.1UF 50V X7R
	C638	065T0805106 A7	CHIP 10UF 10V Y5V 0805

	C639	067T 309221 2	220UF +-20% 10V
	C640	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C641	065T0603152 31	CHIP 1500PF 50V NPO
	C642	065T0603152 31	CHIP 1500PF 50V NPO
	C645	067T 305100 3T	10UF 16V
	C649	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C650	067T 309221 2	220UF +-20% 10V
	C658	065T0805475 15	CHIP 4.7UF 16V X5R
	C659	065T0805475 15	CHIP 4.7UF 16V X5R
	C661	065T0402101 32	100PF +-10% 50V X7R
	C662	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C663	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C664	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C665	065T0603222 22	MLCC 0603 2200PF K 25V X7R
	C666	065T0603102 32	CHIP 1000PF 50V X7R
	C667	065T0603102 32	CHIP 1000PF 50V X7R
	C668	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C669	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C670	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C671	065T0402101 32	100PF +-10% 50V X7R
	C672	065T0603222 22	MLCC 0603 2200PF K 25V X7R
	C673	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C674	067T 305100 3T	10UF 16V
	C675	065T0603104 32	CHIP 0.1UF 50V X7R
	C676	067T 305100 3T	10UF 16V
	C677	065T0603104 32	CHIP 0.1UF 50V X7R
	C678	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C679	065T0603104 32	CHIP 0.1UF 50V X7R
	C680	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C681	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C682	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C683	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C684	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C685	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C686	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C687	065T0402330 31	33PF +-50% 50V NPO
	C688	065T0402330 31	33PF +-50% 50V NPO
	C689	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C690	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C691	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C692	065T0603222 22	MLCC 0603 2200PF K 25V X7R
	C693	065T0603222 22	MLCC 0603 2200PF K 25V X7R
	C694	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C695	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C696	065T0603152 31	CHIP 1500PF 50V NPO
	C697	065T0603152 31	CHIP 1500PF 50V NPO

	C698	065T0402101 32	100PF +-10% 50V X7R
	C699	065T0402101 32	100PF +-10% 50V X7R
	C701	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C702	067T 305101 3T	100UF 16V 105C
	C703	067T 305101 3T	100UF 16V 105C
	C704	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C705	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C706	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C707	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C708	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C709	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C710	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C711	065T0805475 A5	CHIP 4.7UF 10V X5R
	C712	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C713	065T0805475 A5	CHIP 4.7UF 10V X5R
	C714	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C715	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C716	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C717	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C718	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C719	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C720	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C721	065T0805475 A5	CHIP 4.7UF 10V X5R
	C722	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C723	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C724	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C725	065T0805475 A5	CHIP 4.7UF 10V X5R
	C726	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C727	067T215L471 2N	ELCAP 105°C 470UF M 10V
	C728	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C729	065T0603105 12	CHIP 1UF 16V X7R
	C730	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C731	067T 2152207RT	22UF +-20%
	C732	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C733	065T0603105 12	CHIP 1UF 16V X7R
	C734	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
	C735	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C736	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C737	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C738	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C739	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C740	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C741	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C742	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C743	065T0603105 12	CHIP 1UF 16V X7R
	C7901	065T0603473 32	CHIP 0.047UF 50V X7R

	C7903	067T 305101 3T	100UF 16V 105C
	C7904	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C7905	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7906	065T0603105 12	CHIP 1UF 16V X7R
	C7907	065T0603474 12	CHIP 0.47UF 16V X7R
	C7908	065T0603221 32	CHIP 220PF 50V X7R
	C7909	067T 305101 3T	100UF 16V 105C
	C7910	067T 305101 3T	100UF 16V 105C
	C7911	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7912	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7913	065T0603105 12	CHIP 1UF 16V X7R
	C7914	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7915	067T215B4713PV	EC 470UF M 16V 10*13
	C7916	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7917	065T0603105 12	CHIP 1UF 16V X7R
	C7918	065T0603105 12	CHIP 1UF 16V X7R
	C7920	067T 305101 3T	100UF 16V 105C
	C7921	067T 305101 3T	100UF 16V 105C
	C7922	067T 305101 3T	100UF 16V 105C
	C7924	067T215L471 2N	ELCAP 105°C 470UF M 10V
	C7925	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7926	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C7927	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7928	067T 305471 3T	105°C 470UF +-20% 16V
	C7929	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7930	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C7931	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7932	067T 305101 3T	100UF 16V 105C
	C7933	065T0805105 22	CHIP 1UF 25V X7R 0805
	C7935	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7936	067T215L471 2N	ELCAP 105°C 470UF M 10V
	C7937	067T215B101 4T	105°C RADIAL E-CAPACTOR 100UF 25V
	C7938	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7939	067T215L471 2N	ELCAP 105°C 470UF M 10V
	C7940	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7941	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7942	065T040210322K M	MLCC 0402 CAP 0.01UF 25V X7R
	C7943	067T 305100 4T	CAP 105°C 10UF M 25V 5*11
	C7944	065T0805104 22	0.1UF +-10% 25V X7R 0805
	C7945	067T215S471 4N	CAP 105°C 470UF M 25V
	C7946	065T0805475A2K T	CAP CHIP 0805 4.7UF K 10V X7R
	C7947	065T1206106 25	CHIP 10UF 25V X5R 1206
DOIDE			
	D501	093T 64 37 N	V-PORT-0603-100K V05
	D502	093T 60S 34 T	DIODE SCS140V 1A/40V SC-76
	D503	093T 64 37 N	V-PORT-0603-100K V05

	D504	093T 64 37 N	V-PORT-0603-100K V05
	D506	093T 60230	BAT54C BY MCC
	D507	093T 60230	BAT54C BY MCC
	D508	093T 64 37 N	V-PORT-0603-100K V05
	D509	093T 64 37 N	V-PORT-0603-100K V05
	D510	093T 64 37 N	V-PORT-0603-100K V05
	D512	093T 60230	BAT54C BY MCC
	D601	093T 64S522SEM	DIODE LL4148 SEMTECH
	D602	093T 64S522SEM	DIODE LL4148 SEMTECH
	D603	093T 64S522SEM	DIODE LL4148 SEMTECH
	D604	093T 64S522SEM	DIODE LL4148 SEMTECH
	D605	093T 64S522SEM	DIODE LL4148 SEMTECH
	D7901	093T2004 2A	SM240A DO-214AC
	D7902	093T 64S522SEM	DIODE LL4148 SEMTECH
	D7903	093T3004 3	SM340A DO-214AC BY SECOS
	D7904	093T3004 3	SM340A DO-214AC BY SECOS
	ZD101	093T 64 37 N	V-PORT-0603-100K V05
	ZD102	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD103	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD104	093T 64 37 N	V-PORT-0603-100K V05
	ZD105	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD106	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD107	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD108	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD109	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD110	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD111	093T 39S 40 T	RLZ 13B LLDS
	ZD112	093T 64 37 N	V-PORT-0603-100K V05
	ZD113	093T 64 37 N	V-PORT-0603-100K V05
	ZD114	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD115	093T 64 37 N	V-PORT-0603-100K V05
	ZD116	093T 64 37 N	V-PORT-0603-100K V05
	ZD117	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD118	093T 64 37 N	V-PORT-0603-100K V05
	ZD119	093T 64 37 N	V-PORT-0603-100K V05
	ZD120	093T 39S 40 T	RLZ 13B LLDS
	ZD121	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD401	093T 64 37 N	V-PORT-0603-100K V05
	ZD402	093T 64 37 N	V-PORT-0603-100K V05
	ZD403	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD404	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD501	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD502	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD503	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD504	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD505	093T 39S 34 T	UDZSNP5.6B ROHM

	ZD506	093T 64 37 N	V-PORT-0603-100K V05
	ZD507	093T 64 37 N	V-PORT-0603-100K V05
	ZD508	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD509	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD510	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD511	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD512	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD513	093T 64 37 N	V-PORT-0603-100K V05
	ZD514	093T 64 37 N	V-PORT-0603-100K V05
	ZD515	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD516	093T 39S 34 T	UDZSNP5.6B ROHM
	ZD601	093T 64 37 N	V-PORT-0603-100K V05
	ZD602	093T 64 37 N	V-PORT-0603-100K V05

RESISTOR

	R101	061T0603270	RST CHIPR 27 OHM +-5% 1/10W
	R102	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R103	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R104	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R105	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R106	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
	R107	061T0603270	RST CHIPR 27 OHM +-5% 1/10W
	R108	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R109	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
	R110	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R111	061T0603302	CHIP 3K OHM 5% 1/16
	R112	061T0603203	CHIPR 20K OHM+-5% 1/10W
	R113	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R114	061T0603302	CHIP 3K OHM 5% 1/16
	R115	061T0603203	CHIPR 20K OHM+-5% 1/10W
	R116	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R117	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R118	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
	R119	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
	R120	061T0603270	RST CHIPR 27 OHM +-5% 1/10W
	R121	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R122	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
	R123	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R124	061T0603270	RST CHIPR 27 OHM +-5% 1/10W
	R125	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R126	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
	R127	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R128	061T0603680	RST CHIPR 68 OHM +-5% 1/10W
	R129	061T0805750	RST CHIPR 75 OHM +-5% 1/8W
	R130	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R131	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R132	061T0603680	RST CHIPR 68 OHM +-5% 1/10W

	R133	061T0805750	RST CHIPR 75 OHM +-5% 1/8W
	R134	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R135	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R136	061T0805750	RST CHIPR 75 OHM +-5% 1/8W
	R137	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R138	061T0603680	RST CHIPR 68 OHM +-5% 1/10W
	R139	061T0603750	RST CHIPR 75 OHM +-5% 1/10W
	R140	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R141	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R142	061T0603302	CHIP 3K OHM 5% 1/16
	R143	061T0603203	CHIPR 20K OHM+-5% 1/10W
	R144	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R145	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R146	061T0603302	CHIP 3K OHM 5% 1/16
	R147	061T0603203	CHIPR 20K OHM+-5% 1/10W
	R148	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R149	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R150	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
	R151	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
	R152	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R153	061T0603270	RST CHIPR 27 OHM +-5% 1/10W
	R154	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R155	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R156	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
	R157	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R158	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R159	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R160	061T0603680	RST CHIPR 68 OHM +-5% 1/10W
	R161	061T0603750	RST CHIPR 75 OHM +-5% 1/10W
	R164	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R165	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R166	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R167	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R168	061T1206680	RST CHIPR 68 OHM +-5% 1/4W
	R169	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R170	061T1206750 9F	RST CHIPR 75 OHM +-1% 1/4W
	R171	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R172	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R173	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R174	061T0603513	RST CHIPR 51 KOHM +-5% 1/10W
	R175	061T0603105	RST CHIPR 1MOHM +-5% 1/10W
	R176	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R178	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R181	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R182	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R183	061T0603473	CHIP 47KOHM 1/16W

	R184	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R185	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R186	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R187	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R188	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R189	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R190	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R191	061T0603472	CHIP 4.7KOHM 1/16W
	R192	061T0603472	CHIP 4.7KOHM 1/16W
	R193	061T0603105	RST CHIPR 1MOHM +-5% 1/10W
	R194	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R195	061T0603330	CHIP 33OHM 1/16W
	R196	061T0603330	CHIP 33OHM 1/16W
	R197	061T0603330	CHIP 33OHM 1/16W
	R198	061T0603330	CHIP 33OHM 1/16W
	R199	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R200	061T0603472	CHIP 4.7KOHM 1/16W
	R201	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R204	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R205	061T0603472	CHIP 4.7KOHM 1/16W
	R206	061T0603472	CHIP 4.7KOHM 1/16W
	R209	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R210	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R211	061T0603100	CHIP 10OHM 1/16W
	R213	061T1206560 F	RST CHIPR 56 OHM +-5% 1/4W FENGHUA
	R214	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R215	061T1206750	RST CHIPR 75 OHM +-5% 1/4W
	R216	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R218	061T0603100	CHIP 10OHM 1/16W
	R219	061T0603560 9F	RST CHIPR 56 OHM +-1% 1/10W
	R220	061T1206750	RST CHIPR 75 OHM +-5% 1/4W
	R221	061T0603750	RST CHIPR 75 OHM +-5% 1/10W
	R222	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R223	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R224	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R225	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R226	061T0603105	RST CHIPR 1MOHM +-5% 1/10W
	R228	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R229	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R230	061T0402101	RST CHIPR 100 OHM +-5% 1/16W
	R231	061T0402101	RST CHIPR 100 OHM +-5% 1/16W
	R232	061T0402101	RST CHIPR 100 OHM +-5% 1/16W
	R233	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R234	061T0402101	RST CHIPR 100 OHM +-5% 1/16W
	R235	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R236	061T0402101	RST CHIPR 100 OHM +-5% 1/16W

	R237	061T0402101	RST CHIPR 100 OHM +-5% 1/16W
	R238	061T0402101	RST CHIPR 100 OHM +-5% 1/16W
	R239	061T0402101	RST CHIPR 100 OHM +-5% 1/16W
	R240	061T0402101	RST CHIPR 100 OHM +-5% 1/16W
	R241	061T0402101	RST CHIPR 100 OHM +-5% 1/16W
	R242	061T0402101	RST CHIPR 100 OHM +-5% 1/16W
	R243	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R244	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R245	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R246	061T0603472	CHIP 4.7KOHM 1/16W
	R248	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R250	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R251	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R252	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R253	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R254	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R255	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R256	061T0603331	RST CHIPR 330 OHM +-5% 1/10W
	R257	061T0805000	RST CHIPR 0 OHM +-5% 1/8W
	R262	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R263	061T0603472	CHIP 4.7KOHM 1/16W
	R264	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R401	061T0603472	CHIP 4.7KOHM 1/16W
	R420	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R421	061T0603472	CHIP 4.7KOHM 1/16W
	R422	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R423	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R424	061T0603330	CHIP 33OHM 1/16W
	R425	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R426	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R427	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R428	061T0603472	CHIP 4.7KOHM 1/16W
	R429	061T0603472	CHIP 4.7KOHM 1/16W
	R430	061T0603472	CHIP 4.7KOHM 1/16W
	R431	061T0603472	CHIP 4.7KOHM 1/16W
	R432	061T0603472	CHIP 4.7KOHM 1/16W
	R434	061T0603472	CHIP 4.7KOHM 1/16W
	R437	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R440	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R441	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R442	061T0603109	RST CHIPR 1 OHM +-5% 1/10W
	R443	061T0603472	CHIP 4.7KOHM 1/16W
	R447	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R449	061T0603330	CHIP 33OHM 1/16W
	R450	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R451	061T0603392	CHIP 3.9KOHM 1/16W

	R452	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R453	061T0603472	CHIP 4.7KOHM 1/16W
	R454	061T0603472	CHIP 4.7KOHM 1/16W
	R455	061T0603392	CHIP 3.9KOHM 1/16W
	R456	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R457	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R461	061T0603473	CHIP 47KOHM 1/16W
	R462	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R464	061T0603473	CHIP 47KOHM 1/16W
	R465	061T0603330	CHIP 33OHM 1/16W
	R466	061T0603330	CHIP 33OHM 1/16W
	R467	061T0603330	CHIP 33OHM 1/16W
	R468	061T0603330	CHIP 33OHM 1/16W
	R470	061T0603203	CHIPR 20K OHM+-5% 1/10W
	R471	061T0603203	CHIPR 20K OHM+-5% 1/10W
	R472	061T0603820 0F	RST CHIPR 820 OHM +-1% 1/10W
	R473	061T0603180 1F	RST CHIPR 1.8 KOHM +-1% 1/10W
	R476	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R477	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R478	061T0603121	RST CHIPR 120 OHM +-5% 1/10W
	R501	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W
	R502	061T0603472	CHIP 4.7KOHM 1/16W
	R503	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R504	061T0603222	CHIP 2.2K OHM 1/16W
	R505	061T0603222	CHIP 2.2K OHM 1/16W
	R507	061T0603472	CHIP 4.7KOHM 1/16W
	R508	061T0603472	CHIP 4.7KOHM 1/16W
	R509	061T0603222	CHIP 2.2K OHM 1/16W
	R510	061T0603362	RST CHIPR 3.6 KOHM +-5% 1/10W
	R511	061T0603121	RST CHIPR 120 OHM +-5% 1/10W
	R512	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R513	061T0603472	CHIP 4.7KOHM 1/16W
	R514	061T0603472	CHIP 4.7KOHM 1/16W
	R515	061T0603472	CHIP 4.7KOHM 1/16W
	R516	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R517	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R518	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R519	061T0603472	CHIP 4.7KOHM 1/16W
	R520	061T0603472	CHIP 4.7KOHM 1/16W
	R521	061T0603472	CHIP 4.7KOHM 1/16W
	R522	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R523	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R524	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R525	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R528	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R529	061T0603000	RST CHIPR 0 OHM +-5% 1/10W

	R532	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R533	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R534	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R535	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R536	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R537	061T08057509FY	RST CHIPR 75 OHM +-1% 1/8W YAGEO
	R538	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R539	061T0603680	RST CHIPR 68 OHM +-5% 1/10W
	R540	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R541	061T0603680	RST CHIPR 68 OHM +-5% 1/10W
	R542	061T08057509FY	RST CHIPR 75 OHM +-1% 1/8W YAGEO
	R543	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R544	061T0603680	RST CHIPR 68 OHM +-5% 1/10W
	R545	061T08057509FY	RST CHIPR 75 OHM +-1% 1/8W YAGEO
	R546	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R547	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R548	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R549	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R550	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R551	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R552	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R553	061T06033909FY	RST CHIPR 39 OHM +-1% 1/10W YAGEO
	R554	061T08057509FY	RST CHIPR 75 OHM +-1% 1/8W YAGEO
	R555	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R556	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R557	061T06033909FY	RST CHIPR 39 OHM +-1% 1/10W YAGEO
	R558	061T08057509FY	RST CHIPR 75 OHM +-1% 1/8W YAGEO
	R559	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R560	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R561	061T0603222	CHIP 2.2K OHM 1/16W
	R562	061T06033909FY	RST CHIPR 39 OHM +-1% 1/10W YAGEO
	R563	061T08057509FY	RST CHIPR 75 OHM +-1% 1/8W YAGEO
	R564	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R565	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R566	061T0603222	CHIP 2.2K OHM 1/16W
	R567	061T0603822	RST CHIPR 8.2 KOHM +-5% 1/10W
	R568	061T0603302	CHIP 3K OHM 5% 1/16
	R569	061T0603203	CHIPR 20K OHM+-5% 1/10W
	R570	061T0603822	RST CHIPR 8.2 KOHM +-5% 1/10W
	R571	061T0603302	CHIP 3K OHM 5% 1/16
	R572	061T0603203	CHIPR 20K OHM+-5% 1/10W
	R573	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R574	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R575	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R576	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R577	061T0603300 2F	RST CHIPR 30 KOHM +-1% 1/10W

	R578	061T0603300 2F	RST CHIPR 30 KOHM +-1% 1/10W
	R581	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R582	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R583	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R584	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R601	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R602	061T0603472	CHIP 4.7KOHM 1/16W
	R603	061T0603822	RST CHIPR 8.2 KOHM +-5% 1/10W
	R604	061T0603472	CHIP 4.7KOHM 1/16W
	R605	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R606	061T1206100	RST CHIPR 10 OHM +-5% 1/4W
	R607	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R608	061T0603473	CHIP 47KOHM 1/16W
	R609	061T0603123	RST CHIPR 12 KOHM +-5% 1/10W
	R610	061T0603473	CHIP 47KOHM 1/16W
	R613	061T0603393	RST CHIPR 39 KOHM +-5% 1/10W
	R614	061T1206100	RST CHIPR 10 OHM +-5% 1/4W
	R615	061T0603472	CHIP 4.7KOHM 1/16W
	R616	061T0603822	RST CHIPR 8.2 KOHM +-5% 1/10W
	R617	061T0603472	CHIP 4.7KOHM 1/16W
	R618	061T0603122	RST CHIPR 1.2 KOHM +-5% 1/10W
	R620	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R621	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R622	061T0603302	CHIP 3K OHM 5% 1/16
	R624	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R625	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R626	061T12061009FY	RST CHIPR 10 OHM +-1% 1/4W YAGEO
	R627	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R628	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R629	061T0603100	CHIP 10OHM 1/16W
	R630	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R631	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R632	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R633	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R634	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
	R635	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R636	061T0603200	RST CHIPR 20 OHM +-5% 1/10W
	R638	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R639	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R640	061T0603473	CHIP 47KOHM 1/16W
	R641	061T0603473	CHIP 47KOHM 1/16W
	R642	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R644	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
	R645	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R646	061T0603200	RST CHIPR 20 OHM +-5% 1/10W
	R648	061T0603101	RST CHIPR 100 OHM +-5% 1/10W

	R649	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R652	061T0603474	RST CHIPR 470 KOHM +-5% 1/10W
	R654	061T0603474	RST CHIPR 470 KOHM +-5% 1/10W
	R656	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R657	061T0603471	RST CHIPR 470OHM +-5% 1/10W
	R658	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R659	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W
	R660	061T0603100	CHIP 10OHM 1/16W
	R661	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R662	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R663	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R664	061T0603473	CHIP 47KOHM 1/16W
	R665	061T0603471	RST CHIPR 470OHM +-5% 1/10W
	R666	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R667	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W
	R668	061T0603100	CHIP 10OHM 1/16W
	R669	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R670	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R671	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R672	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R673	061T0603473	CHIP 47KOHM 1/16W
	R674	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R675	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R676	061T0603473	CHIP 47KOHM 1/16W
	R677	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R678	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R679	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R680	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R681	061T0603473	CHIP 47KOHM 1/16W
	R682	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
	R683	061T0603222	CHIP 2.2K OHM 1/16W
	R684	061T0603222	CHIP 2.2K OHM 1/16W
	R685	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R686	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R687	061T0603473	CHIP 47KOHM 1/16W
	R688	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R689	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
	R690	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
	R691	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R692	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R693	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R694	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R695	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
	R696	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R697	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R698	061T0603103	RST CHIPR 10KOHM +-5% 1/10W

	R699	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R700	061T0603473	CHIP 47KOHM 1/16W
	R701	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R702	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R704	061T0402470	RST CHIPR 47 OHM +-5% 1/16W
	R705	061T0603750	RST CHIPR 75 OHM +-5% 1/10W
	R706	061T0402470	RST CHIPR 47 OHM +-5% 1/16W
	R707	061T0603750	RST CHIPR 75 OHM +-5% 1/10W
	R708	061T0402470	RST CHIPR 47 OHM +-5% 1/16W
	R709	061T0603750	RST CHIPR 75 OHM +-5% 1/10W
	R710	061T0402470	RST CHIPR 47 OHM +-5% 1/16W
	R711	061T0603750	RST CHIPR 75 OHM +-5% 1/10W
	R712	061T0603220	CHIP 22OHM 1/10W
	R713	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R714	061T0603220	CHIP 22OHM 1/10W
	R715	061T0603472	CHIP 4.7KOHM 1/16W
	R716	061T0603111	RST CHIPR 110 OHM +-5% 1/10W
	R717	061T0603121	RST CHIPR 120 OHM +-5% 1/10W
	R718	061T0603220	CHIP 22OHM 1/10W
	R720	061T0603473	CHIP 47KOHM 1/16W
	R721	061T0603473	CHIP 47KOHM 1/16W
	R725	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R726	061T0603473	CHIP 47KOHM 1/16W
	R727	061T0603472	CHIP 4.7KOHM 1/16W
	R729	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R730	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R731	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R732	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R733	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W
	R734	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R735	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W
	R736	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
	R737	061T0603471	RST CHIPR 470OHM +-5% 1/10W
	R738	061T0603471	RST CHIPR 470OHM +-5% 1/10W
	R739	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R7901	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R7902	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
	R7903	061T0603472	CHIP 4.7KOHM 1/16W
	R7904	061T0603473	CHIP 47KOHM 1/16W
	R7905	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7906	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7907	061T0603472	CHIP 4.7KOHM 1/16W
	R7908	061T0603752	RST CHIPR 7.5 KOHM +-5% 1/10W
	R7909	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7910	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7911	061T0603103	RST CHIPR 10KOHM +-5% 1/10W

	R7912	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7914	061T0603472	CHIP 4.7KOHM 1/16W
	R7915	061T0603473	CHIP 47KOHM 1/16W
	R7916	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7917	061T0603562	RST CHIPR 5.6 KOHM +-5% 1/10W
	R7918	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7919	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R7920	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
	R7921	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7922	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7923	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R7924	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7925	061T0603202	RST CHIPR 2 KOHM +-5% 1/10W
	R7926	061T0603102 1F	RST CHIPR 1.02KOHM +-1% 1/10W
	R7927	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R7928	061T0603302	CHIP 3K OHM 5% 1/16
	R7929	061T0603271	RST CHIPR 270 OHM +-5% 1/10W
	R7930	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
	R7931	061T0603130 1F	RST CHIPR 1.3 KOHM +-1% 1/10W
	R7932	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R7933	061T0603203	CHIPR 20K OHM+-5% 1/10W
	R7934	061T0603202	RST CHIPR 2 KOHM +-5% 1/10W
	R7935	061T0805000	RST CHIPR 0 OHM +-5% 1/8W
	R7936	061T 208201 64	RST MOFR 200 OHM +-5% 1W
	R7937	061T0805000	RST CHIPR 0 OHM +-5% 1/8W
	R795	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
	R796	061T0603562	RST CHIPR 5.6 KOHM +-5% 1/10W
	RN401	061T 125103 8	RST CHIP AR 8P4R 10KOHM +-5% 1/16W
	RN501	061T 125472 8	RST CHIP AR 8P4R 4.7KOHM +-5% 1/16W
	RN701	061T 126470 8	RST CHIPR AR 8P4R 47 OHM +-5% 1/16W
	RN702	061T 125750 8Y	RST CHIP AR 8P4R 75 OHM +-5% 1/16W
	RN703	061T 125750 8Y	RST CHIP AR 8P4R 75 OHM +-5% 1/16W
	RN704	061T 125750 8Y	RST CHIP AR 8P4R 75 OHM +-5% 1/16W
	RN705	061T 125750 8Y	RST CHIP AR 8P4R 75 OHM +-5% 1/16W
	RN706	061T 125750 8Y	RST CHIP AR 8P4R 75 OHM +-5% 1/16W
	RN707	061T 126470 8	RST CHIPR AR 8P4R 47 OHM +-5% 1/16W
	RN708	061T 126470 8	RST CHIPR AR 8P4R 47 OHM +-5% 1/16W
	RN709	061T 125750 8Y	RST CHIP AR 8P4R 75 OHM +-5% 1/16W
	RN710	061T 126470 8	RST CHIPR AR 8P4R 47 OHM +-5% 1/16W
	RN711	061T 125750 8Y	RST CHIP AR 8P4R 75 OHM +-5% 1/16W
	RN712	061T 126470 8	RST CHIPR AR 8P4R 47 OHM +-5% 1/16W
	RN713	061T 126470 8	RST CHIPR AR 8P4R 47 OHM +-5% 1/16W
	RN714	061T 126470 8	RST CHIPR AR 8P4R 47 OHM +-5% 1/16W
	RN715	061T 125750 8Y	RST CHIP AR 8P4R 75 OHM +-5% 1/16W
	RN716	061T 126470 8	RST CHIPR AR 8P4R 47 OHM +-5% 1/16W
	RN717	061T 126470 8	RST CHIPR AR 8P4R 47 OHM +-5% 1/16W

	RN718	061T 125750 8Y	RST CHIP AR 8P4R 75 OHM +-5% 1/16W
IC			
	TU201	094T DVB-T 5P	TUNER DVB-T FQD1116ME/IH-5
	U101	057T 763 79	FET AO4449 -7A/-30V SOIC-8
	U103	056T1126 40	IC MT8295AE LQFP-128
	U104	056T 563113	IC G1117-18T63UF 1A/1.8V SOT-223
	U201	056T 647 25	IC MT5133AN QFN-48
	U401	056T1133 56	M24C16-WMN6TP
	U403	056T1126 55	IC MT5380GKU LQFP-256
	U404	056T1133935(DLGBK4M26NQ1)	IC MX25L3205DMI-12G SOP-16
	U405	056T 645 1	HIN232CB-T S016 INTERSIL
	U406	056T 643 35	IC MAX809STRG 2.93V SOT23-3
	U501	056T 662 10	IC RCLAMP0524P.TCT
	U502	056T 634902	IC TMDS251PAGR TQFP-64
	U503	056T1133913	IC M24C02-WDW6P TSSOP8
	U504	056T 662 10	IC RCLAMP0524P.TCT
	U505	056T1133913	IC M24C02-WDW6P TSSOP8
	U506	056T 662 10	IC RCLAMP0524P.TCT
	U507	056T 662 10	IC RCLAMP0524P.TCT
	U508	056T 623904	IC TS5A3157DCKR SC70
	U510	056T1133913	IC M24C02-WDW6P TSSOP8
	U601	056T 647 18	IC WM8521HCGED/RV SOIC-14
	U602	056T 616913	IC TDA8932BTW HTSSOP32
	U603	056T 616 3	PT2308S SO-8 PTC
	U604	056T 616914	IC RC4580IPWR TSSOP8
	U605	056T 614 1	IC 74HC4052D PHILIPS
	U606	056T566N600	NDC7002N SOT-6 FAIRCHILD
	U607	056T 616914	IC RC4580IPWR TSSOP8
	U701	056T 615 71	IC HY5DU121622DTP-D43 512MB TSOPII-66
	U704	056T 563 93	IC G9084T43U TO-252
	U705	056T 379 82	IC G2996F1UF SOP-8
	U7901	056T 563129	IC AME8810-AEGTZ 0.6A/3.3V SOT-223
	U7902	056T 563109	IC SC4519S.TRT SO-8 EDP
	U7903	056T 563126	IC G1117T63UF SOT-223
	U7904	056T 379 86	IC AP1513SA SOP-8L
	U7905	056T 563 75	G1084-33T43UF TO-252
	U7906	056T 563126	IC G1117T63UF SOT-223
	U7907	056T 563 44	AME8815BEGT 250Z SOP-223
	U7908	056T 563 57	AP1510SA
	U7909	056T 585 11	AZ1117D-5.0-E1
	U7910	056T 133 23 R	BA17809FP-E2
TRANSISTOR			
	Q101	057T 419911 T	TRA 2A/12V 2SD2653K SOT-346
	Q102	057T 759 2A	2N7002 BY PANJIT
	Q103	057T 763 50	FET ME2301 -2.8A/-20V SOT-23
	Q104	057T 417511	TRA MMBT3904 BLUE ROKET

	Q201	057T 419911 T	TRA 2A/12V 2SD2653K SOT-346
	Q202	057T 419911 T	TRA 2A/12V 2SD2653K SOT-346
	Q405	057T 417511	TRA MMBT3904 BLUE ROKET
	Q406	057T 417512	TRA MMBT3906 BLUE ROKET
	Q407	057T 417511	TRA MMBT3904 BLUE ROKET
	Q408	057T 417512	TRA MMBT3906 BLUE ROKET
	Q502	057T 417511	TRA MMBT3904 BLUE ROKET
	Q503	057T 417511	TRA MMBT3904 BLUE ROKET
	Q505	057T 417511	TRA MMBT3904 BLUE ROKET
	Q601	057T 419 8 T	TRA 2SD1757K 0.5A/15V SC-59
	Q602	057T 417511	TRA MMBT3904 BLUE ROKET
	Q603	057T 417511	TRA MMBT3904 BLUE ROKET
	Q604	057T 417511	TRA MMBT3904 BLUE ROKET
	Q605	057T 417511	TRA MMBT3904 BLUE ROKET
	Q606	057T 417512	TRA MMBT3906 BLUE ROKET
	Q607	057T 419 8 T	TRA 2SD1757K 0.5A/15V SC-59
	Q608	057T 419 8 T	TRA 2SD1757K 0.5A/15V SC-59
	Q609	057T 419 8 T	TRA 2SD1757K 0.5A/15V SC-59
	Q610	057T 419 8 T	TRA 2SD1757K 0.5A/15V SC-59
	Q611	057T 417511	TRA MMBT3904 BLUE ROKET
	Q612	057T 419 8 T	TRA 2SD1757K 0.5A/15V SC-59
	Q613	057T 417511	TRA MMBT3904 BLUE ROKET
	Q7901	057T 417511	TRA MMBT3904 BLUE ROKET
	Q7902	057T 763 80	FET AP9435GM -5.3A/-30V SO-8
	Q7903	057T 417511	TRA MMBT3904 BLUE ROKET
	Q7904	057T 417511	TRA MMBT3904 BLUE ROKET
	Q7905	057T 417511	TRA MMBT3904 BLUE ROKET
	Q7906	057T 417511	TRA MMBT3904 BLUE ROKET
	Q7907	057T 763 79	FET AO4449 -7A/-30V SOIC-8
	Q7908	057T 417511	TRA MMBT3904 BLUE ROKET

COIL&FILTER

	L101	071T 59C800	CHIP BEAD
	L102	071T 59C800	CHIP BEAD
	L103	071T 59C800	CHIP BEAD
	L104	071T 59C800	CHIP BEAD
	L106	071T 56121 B	CHIP BEAD HCB2012KF-121T30 BULLWILL
	L201	061T0805000	RST CHIPR 0 OHM +-5% 1/8W
	L205	073T 6322910K	CHIP INDUCTOR 2.2UH 10% FLM
	L206	073T 6322910K	CHIP INDUCTOR 2.2UH 10% FLM
	L207	061T0805000	RST CHIPR 0 OHM +-5% 1/8W
	L401	073T 6382810K	CHIP INDUCTOR 0.82UH 10% FLMA-160808-R82
	L501	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
	L502	071T 59B121 K	CHIP BEAD
	L503	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
	L504	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00

	L505	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
	L506	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
	L507	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
	L508	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
	L509	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
	L510	071T 59C800	CHIP BEAD
	L511	071T 59C800	CHIP BEAD
	L512	071T 59C800	CHIP BEAD
	L513	071T 59C800	CHIP BEAD
	L514	071T 59C800	CHIP BEAD
	L515	071T 59C800	CHIP BEAD
	L516	071T 59C800	CHIP BEAD
	L517	071T 59C800	CHIP BEAD
	L601	073T 253158 H	CHOKE COIL 22UH+/-25%
	L602	073T 253158 H	CHOKE COIL 22UH+/-25%
	L7901	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	L7902	073T M58904 T	SMD INDUCTOR 10UH 20% SLF10155T-
	L7903	073T M58908 T	SMD INDUCTOR 27UH 20% SLF10155T-
	L7904	073T M58908 T	SMD INDUCTOR 27UH 20% SLF10155T-
	FB101	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB102	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB103	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB104	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB105	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB106	071T 57121 M	MGLB3216-120T-LF
	FB109	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB110	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB111	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB112	071T 56G301 EA	CHIP BEAD 300 OHM 0805
	FB201	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB202	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB203	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB204	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB205	071T 59C300	CHIP BEAD 30 OHM 0603
	FB401	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB403	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB404	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB405	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB406	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB407	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB408	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB409	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB501	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB502	071T3216330 6M	CHIP BEAD 1206 33OHM 6A
	FB503	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB504	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA

	FB505	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB506	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB507	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB508	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB509	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB510	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB511	071T 56G301 EA	CHIP BEAD 300 OHM 0805
	FB601	071T 56G301 EA	CHIP BEAD 300 OHM 0805
	FB602	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB604	071T3216330 6M	CHIP BEAD 1206 33OHM 6A
	FB605	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB606	071T 59G301	CHIP BEAD 300OHM
	FB607	071T 59G301	CHIP BEAD 300OHM
	FB608	071T 56G151 MD	0603 150 OHM
	FB609	071T 56G151 MD	0603 150 OHM
	FB610	071T 56G151 MD	0603 150 OHM
	FB611	071T 56G151 MD	0603 150 OHM
	FB612	071T 57U700 M	CHIP BEAD 1206 70OHM MICROGATE
	FB613	071T 57U700 M	CHIP BEAD 1206 70OHM MICROGATE
	FB614	071T 57U700 M	CHIP BEAD 1206 70OHM MICROGATE
	FB615	071T 57U700 M	CHIP BEAD 1206 70OHM MICROGATE
	FB701	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB702	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB7901	071T2012221 2M	CHIP BEAD 0805 220 OHM 2000MA
	FB7902	061T0805000	RST CHIPR 0 OHM +-5% 1/8W

OTHERS

	X101	093T 22S64B H	HSX840GA 27.0000MHZ
	X201	093T 2264A J	CRY NXS27.000AE15F-BT1 HC-49/US
	X401	093T 22902 C	CRYSTAL 60MHZ 9P HC-49/S
	CN101	088T 100 11 ST	MINI DIN JACK 4P+ SWITCH 2MJ-0602-005
	CN102	088T 7813A18S	RCA JACK 1*3 R/W/Y
	CN103	088T 35521F ST	SCART CONN. 21P V/A
	CN104	088T 35521F ST	SCART CONN. 21P V/A
	CN106	088T 500 9 P	PCMCIA CONN.
	CN107	033T801930F C JS	FFC CONNECTOR 1.0PITCH 30P
	CN401	033T380211B Y	CONNECTOR
	CN404	088T 353 9M VX	D-SUB 9 PIN V/A 附 SCREW
	CN405	033T3802 3	WAFER EH-3
	CN501	088T 340 21 VN	HDMI HEADER 21P V/A
	CN502	088T 340 19CHA	HDMI HEADER 19P 0471518121
	CN503	088T 78 1360S	RCA JACK 1*3 G/B/R V/A
	CN504	088T 78 1357S	RCA JACK 1*1 W+R V/A
	CN505	088T 35315FVSC	D-SUB 15PIN VERTICAL CONN WITH SCREW
	CN506	088T 30252S	PHONE JACK 3.5MM 3P V/A GREEN
	CN517	088T 359 5 JT	FIBER-OPTIC 3P V/T JST1227
	CN601	088T 30211K	PHONE JACK

	CN602	033T3802 4B Y	CONNECTOR
	CN7901	033T327815D	CONNECTOR
POWER BOARD			
CAPACITOR			
	C901	063T107K474 US	X2 CAP 0.47UF K 275VAC
	C901	006G 31 4	1.7MM RIVET
	C902	065T306M1022BM GP	Y1.CAP.001UF 250VAC MURATA
	C903	065T306M1022BM GP	Y1.CAP.001UF 250VAC MURATA
	C904	063G 10722410M	0.22 UF 275VAC
	C904	006G 31502	1.5MM RIVET
	C905	063T210K105BCN	MPP CAP 1UF 520V P=15MM
	C905	006G 31502	1.5MM RIVET
	C906	065T306M1022BM GP	Y1.CAP.001UF 250VAC MURATA
	C907	067G215S10115R	CAPACITOR
	C907	006G 31502	1.5MM RIVET
	C909	067T215Y1007KT	EC105 10U 50V KEM50V
	C910	065T0805560 31	MLCC 0805 CAP 56PF J 50V NPO
	C911	065T0805104 32	CHIP 0.1UF 50V X7R
	C912	065T0805102 31	1000PF 50V NPO
	C913	065T0805103 32	10NF/50V/0805/X7R
	C914	065T0805224 32	0805.0.22UF.K.50V.X7R
	C915	065T0805103 32	10NF/50V/0805/X7R
	C916	067T215A1017KT	EC 100UF 50V 8*12MM
	C917	067T215Y1007KT	EC105 10U 50V KEM50V
	C918	065T0805104 32	CHIP 0.1UF 50V X7R
	C919	065T0805102 31	1000PF 50V NPO
	C920	065T0805104 32	CHIP 0.1UF 50V X7R
	C921	067T215Y1007KT	EC105 10U 50V KEM50V
	C922	065T0805474 22	CHIP 0.47UF 25V X7R
	C923	065T 1K222 2T6921	0.0022UF 1KV +-10%
	C924	065T0805102 32	CHIP 1000PF 50V X7R 0805
	C925	065T0805102 32	CHIP 1000PF 50V X7R 0805
	C926	067T215A1024KT	EC 1000UF 25V 10*25MM
	C928	067T215A4713KT	EC 470UF 16V 10*12.5MM
	C929	065T0805104 32	CHIP 0.1UF 50V X7R
	C930	065T0805104 32	CHIP 0.1UF 50V X7R
	C931	065T0805105 37	CHIP 1UF 50V Y5V
	C932	065T0805104 32	CHIP 0.1UF 50V X7R
	C933	065T0805221 31	220PF 50V NPO
	C934	065T0805224 22	CAIP CAP 0.22 UF 25V X7R
	C935	065T0805104 32	CHIP 0.1UF 50V X7R
	C936	065T0805104 32	CHIP 0.1UF 50V X7R
	C937	065T0805104 32	CHIP 0.1UF 50V X7R
	C939	067T215A4707KT	EC 47UF 50V 6.3*11MM
	C940	065T0805102 32	CHIP 1000PF 50V X7R 0805
	C941	063T211J273 5C 10	0.027UF 5% 1000V P=15MM

	C942	065T0805472 32	MLCC 0805 CAP 4700PF K 50V X7R
	C943	067T215A1026KV	EC 1000UF 35V 12.5*25MM
	C944	067T215A4716KT	EC 470UF 35V M 10*20MM
	C945	065T0805105 37	CHIP 1UF 50V Y5V
	C946	067T215S4714KL	ELCAP 105°C 470UF M 25V
	C947	067T215A2214KT	EC 220UF 25V 8*12MM
	C949	065T0805104 32	CHIP 0.1UF 50V X7R
	C950	065T306M1022BM GP	Y1.CAP.001UF 250VAC MURATA
	C951	065T 1K1032FE6921	CAP CER 1KV 10NF K Y5P 7.5MM
	C952	065T 1K1032FE6921	CAP CER 1KV 10NF K Y5P 7.5MM
	C953	065G 1K471 2T	470PF 1KV Z5P +-10%
	C954	065G0805470 31	47PF/50V/0805/NPO
	C955	065T0805105 22	CHIP 1UF 25V X7R 0805
	C956	065G 1K471 2T	470PF 1KV Z5P +-10%
	C957	065G1206105 32	CHIP 1UF 50V X7R 1206

DOIDE

	BD901	093T 50460 18	D10XB60
	BD901	006G 31500	EYELET
	D902	093T 52 56	DIODE FMN-1106S 10A/600V TO-220
	D932	093T 64S901 T	DIODE LS4148
	D933	093T 5250S52T	AU02Z
	D934	093T 64S901 T	DIODE LS4148
	D935	093T 60298	DIODE SBT15006JST 15A/60V TO-220ML(LS)
	D935	006G 31502	1.5MM RIVET
	D936	093T 64S901 T	DIODE LS4148
	D937	093T1080 252T	DIODE SARSO1-V1 SANKEN
	D938	093T 64S901 T	DIODE LS4148
	D939	093T 64S901 T	DIODE LS4148
	D940	093T 64S901 T	DIODE LS4148
	D951	093T 64S901 T	DIODE LS4148
	D952	093T 64S901 T	DIODE LS4148
	D953	093T 64S901 T	DIODE LS4148
	D955	093T 60310	DIODE V30100C-E3/4W 30A/100V TO-220AB
	D956	093T 60298	DIODE SBT15006JST 15A/60V TO-220ML(LS)
	ZD931	093T 3916652T	MTZJ T-72 15B
	ZD932	093T 3917052T	MTZJT-72 27B
	ZD933	093T 39S 15 T	RLZ15B
	ZD934	093T 39S 20 T	RLZ22B LLDS
	ZD935	093T 39S 15 T	RLZ15B
	ZD936	093G 39S155	BZT52-C5V6

RESISTOR

	NR901	061T 58030 WL	RST NTCR 3 OHM +-20% 5A THINKING
	R901	061T1206334	RST CHIPR 330 KOHM +-5% 1/4W
	R902	061T1206334	RST CHIPR 330 KOHM +-5% 1/4W
	R903	061T1206334	RST CHIPR 330 KOHM +-5% 1/4W
	R905	061T1206153	RST CHIPR 15 KOHM +-5% 1/4W

	R906	061T1206204	RST CHIPR 200 KOHM +-5% 1/4W
	R907	061T0805563	RST CHIPR 56 KOHM +-5% 1/8W
	R908	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W
	R910	061T12066803FF	RST CHIPR 680KOHM +-1% 1/4W FENGHUA
	R911	061T12066803FF	RST CHIPR 680KOHM +-1% 1/4W FENGHUA
	R912	061T12066803FF	RST CHIPR 680KOHM +-1% 1/4W FENGHUA
	R913	061T0805130 2F	RST CHIPR 13KOHM +-1% 1/8W
	R914	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
	R915	061T3SWJ10864D	RST WWR 0.1OHM +-5% 3WS
	R915	006G 31502	1.5MM RIVET
	R916	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W
	R917	061T 60247152T	470OHM +-5% 1/6W
	R919	061T0805220	RST CHIPR 22 OHM +-5% 1/8W
	R920	061T1206150 3F	RST CHIPR 150KOHM +-1% 1/4W
	R921	061T1206150 3F	RST CHIPR 150KOHM +-1% 1/4W
	R922	061T1206150 3F	RST CHIPR 150KOHM +-1% 1/4W
	R924	061G1206100 4F	RST CHIPR 1 MOHM +-1% 1/4W
	R925	061T1206479	RST CHIPR 4.7 OHM +-5% 1/4W
	R926	061T 20J129GB1 SY	RST CEM 1.2OHM 10% 2W
	R926	006G 31502	1.5MM RIVET
	R927	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W
	R928	061T0805220	RST CHIPR 22 OHM +-5% 1/8W
	R929	061G 21047152T	470 OHM 1% 1/6W
	R930	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W
	R931	061T0805102	RST CHIPR 1KOHM +-5% 1/4W
	R932	061G1206680 3F	RST CHIPR 680KOHM +-1% 1/4W
	R933	061G1206680 3F	RST CHIPR 680KOHM +-1% 1/4W
	R934	061G1206680 3F	RST CHIPR 680KOHM +-1% 1/4W
	R935	061G1206100 4F	RST CHIPR 1 MOHM +-1% 1/4W
	R936	061G1206100 4F	RST CHIPR 1 MOHM +-1% 1/4W
	R937	061G208M10452T	RST MOF 100K 5% 1W
	R938	061T1206470	RST CHIPR 47 OHM +-5% 1/4W
	R939	061T1206470	RST CHIPR 47 OHM +-5% 1/4W
	R940	061T1206470	RST CHIPR 47 OHM +-5% 1/4W
	R941	061T1206470	RST CHIPR 47 OHM +-5% 1/4W
	R942	061T 17247152T	470OHM 5% 1/4W
	R943	061T0805102	RST CHIPR 1KOHM +-5% 1/4W
	R944	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W
	R945	061T0805240 1F	RST CHIPR 2.4 KOHM +-1% 1/8W
	R946	061T0805240 1F	RST CHIPR 2.4 KOHM +-1% 1/8W
	R947	061T 17256052T	RST CFR 56 OHM +-5% 1/4W
	R948	061T0805620 2F	RST CHIPR 62 KOHM +-1% 1/8W
	R949	061T 17210252T	RST CFR 1KOHM +-5% 1/4W
	R950	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W
	R951	061T 21030252T	3KOHM 1% 1/6W
	R952	061T0805302	RST CHIPR 3 KOHM +-5% 1/8W

	R953	061T1206205	RST CHIPR 2 MOHM +-5% 1/4W
	R954	061T1206205	RST CHIPR 2 MOHM +-5% 1/4W
	R955	061T1206205	RST CHIPR 2 MOHM +-5% 1/4W
	R956	061T0805363	RST CHIPR 36 KOHM +-5% 1/8W
	R957	061T 17210352T	CFR 10KOHM +-5% 1/4W
	R958	061T0805180 2F	RST CHIPR 18 KOHM +-1% 1/8W
	R959	061T0805514	RST CHIPR 510KOHM +-5% 1/8W
	R960	061T0805220	RST CHIPR 22 OHM +-5% 1/8W
	R961	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W
	R962	061T0805220	RST CHIPR 22 OHM +-5% 1/8W
	R963	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W
	R964	061T 17210252T	RST CFR 1KOHM +-5% 1/4W
	R965	061T2SWJ50852T	RST WWR 0.50OHM +-5% 2WS NKNP2WS
	R966	061T 20039252T	RST MFR 3.9KOHM +-1% 1/4W
	R967	061T 20010152T	100 OHM 1% 1/4W
	R968	061T 17262252T	6.2KPHM 5% 1/4W
	R969	061G 17233252T	3.3K 1/4W
	R970	061T0805102	RST CHIPR 1KOHM +-5% 1/4W
	R971	061T0805470 2F	RST CHIPR 47 KOHM +-1% 1/8W
	R972	061T0805205 2F	RST CHIPR 20.5KOHM +-1% 1/8W
	R973	061G0805196 1F	RST CHIP 1.96K 1/8W 1%
	R974	061T1206512	RST CHIPR 5.1KOHM +-5% 1/4W
	R975	061T1206512	RST CHIPR 5.1KOHM +-5% 1/4W
	R976	061T1206152	RST CHIPR 1.5 KOHM +-5% 1/4W
	R977	061T0805222	RST CHIPR 2.2 KOHM +-5% 1/8W
	R978	061T0805100 3F	RST CHIPR 100 KOHM +-1% 1/8W
	R979	061T0805820 2F	RST CHIPR 82 KOHM +-1% 1/8W
	R980	061T0805204	RST CHIPR 200 KOHM +-5% 1/8W
	R981	061G0805513	RST CHIPR 51K OHM +-5% 1/8W
	RV901	061T 46 12 GP	VARISTOR 680V TNR15G681K
	RV901	006G 31501	EYELET
	F901	084T 33 10	FUSE CLIP
	F901	084T 41 7	FUSE 5A 250V LITTELFUSE 215005

COIL&FILTER

	L901	006G 31502	1.5MM RIVET
	L901	S73T174106V	TRANSFORMER ASS'Y
	L902	006G 31502	1.5MM RIVET
	L902	S73T174106V	TRANSFORMER ASS'Y
	L903	071T 55 21	IND BEAD 10.0*6.0
	L906	073T 174122 L	PFC CHOKE 230UH PT-009321
	L906	006G 31502	1.5MM RIVET
	L931	073T 253 91 H	CHOKE COIL
	L932	073T 253 91 H	CHOKE COIL
	L971	073T 253150 L	CHOCK
	FB901	071T 55 26 S	FERRITE CORE
	FB902	071G 55 9 T	FERRITE BEAD

	FB904	084T 53 3 C	FUSE 1A 250V
	FB905	061T 30310852T GP	0.1 OHM 1W FUSE RESISTOR
	FB906	071T 55 26 S	FERRITE CORE
IC			
	IC901	056T 368 12	IC FAN7529MX SOP-8
	IC931	056T 379 79	IC LD7522PS SOP-8
	IC932	056T 139 3B	IC PC123Y82FZ0F
	IC933	056T 158 10 T	IC AS431AZTR-E1 TO-92
	IC934	056T 139 3B	IC PC123Y82FZ0F
	IC951	056T 665 10 1	IC RESONANT L6599DTR SO-16N ST
	IC952	056T 139 3B	IC PC123Y82FZ0F
	IC953	056T 158 10 T	IC AS431AZTR-E1 TO-92
TRANSISTOR			
	Q901	057T 600 72	FET SPW16N50C3 16A/560V P-TO247
	Q931	057T 667 52	FET 2SK4100LS-T 7A/650V TO-220FI(LS)
	Q931	006G 31502	1.5MM RIVET
	Q932	057T 761 7	KTD1691P
	Q933	057T 417 12 T	TRA 2N3904S-RTK/PS SOT-23 KEC
	Q934	057T 417 12 T	TRA 2N3904S-RTK/PS SOT-23 KEC
	Q951	057T 611 9	FET 2SK4097LS 9.5A/500V TO-220FI(LS)
	Q951	006G 31502	1.5MM RIVET
	Q952	057T 611 9	FET 2SK4097LS 9.5A/500V TO-220FI(LS)
	Q952	006G 31502	1.5MM RIVET
TRANSFORMER			
	T931	080TL32T 5 N	X'FMR 1.9MH YUVA-827
	T931	006G 31502	1.5MM RIVET
	T951	080TL40T 8 YS	X'FMR 600UH YS04160149
	T951	006G 31 4	1.7MM RIVET
OTHERS			
	CN901	033T8029 3A	WAFER 2P 3.96MM
	CN901	006G 31500	EYELET
	CN902	033T327812D	WAFER 12P PLUG
	CN903	033T380213B Y	CONNECTOR
	J901	095G 90 23	JUMPER
	J902	095G 90 23	JUMPER
	J903	095G 90 23	JUMPER
	J905	095G 90 23	JUMPER
	J906	095G 90 23	JUMPER
	J907	095G 90 23	JUMPER
	J910	095G 90 23	JUMPER
	J911	095G 90 23	JUMPER
	J912	095G 90 23	JUMPER
	J914	095G 90 23	JUMPER
	J915	095G 90 23	JUMPER
	J916	095G 90 23	JUMPER
	J917	095G 90 23	JUMPER

	J918	095G 90 23	JUMPER
	J919	095G 90 23	JUMPER
	J920	095G 90 23	JUMPER
	J921	095G 90 23	JUMPER
	J922	095G 90 23	JUMPER
	J923	095G 90 23	JUMPER
	J925	095G 90 23	JUMPER
	J926	095G 90 23	JUMPER
	J927	095G 90 23	JUMPER
	J928	095G 90 23	JUMPER
	J929	095G 90 23	JUMPER
		705TQ757011	Q951 ASS`Y
		705TQ757012	Q952 ASS`Y
		705TQ757013	Q931 ASS`Y
		705TQ757022	Q901 ASS`Y
		705TQ761021	NR901 ASS`Y
		705TQ793021	D902 ASS`Y
		705TQ793022	D935 ASS`Y
		705TQ793023	D955/D956 ASS`Y
		705TQ861007	RV901 ASS`Y
		705TQ884002	F901 ASS`Y
		705TQ893012	BD901 ASS`Y

KEY BOARD

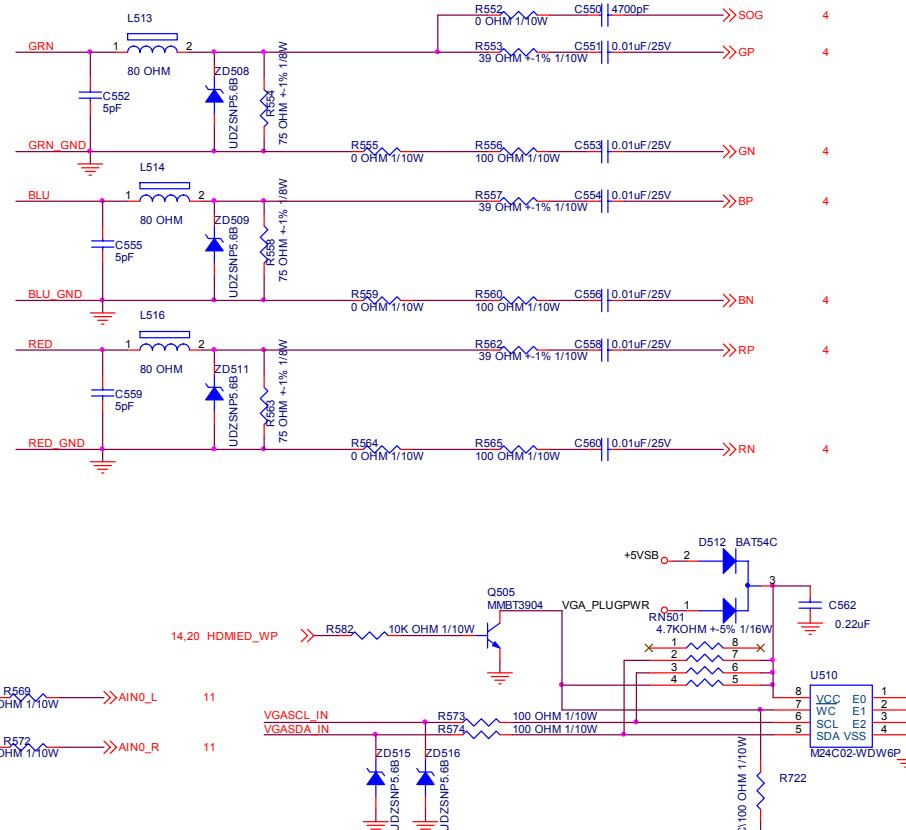
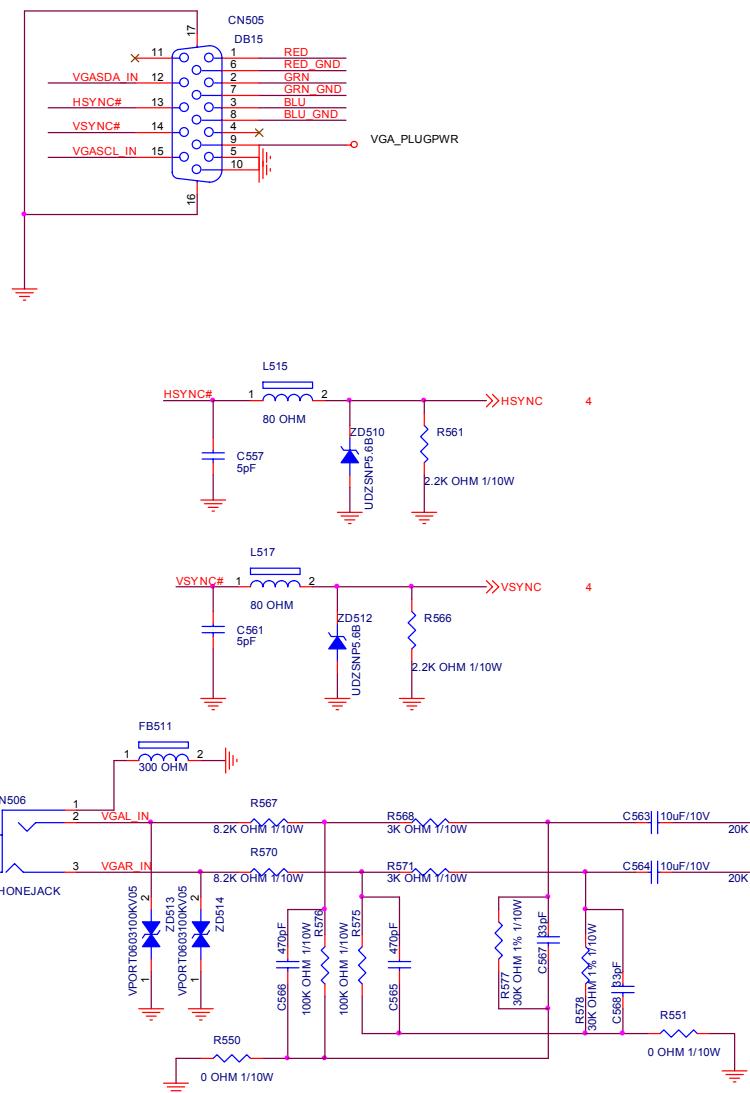
	C001	065T0603104 22	CHIP 0.1UF 25V
	C002	065T0603104 22	CHIP 0.1UF 25V
	CN001	033T3802 4 BH F	CONNECTOR
	R001	061G0603110 2F	RST CHIPR 11 KOHM +-1% 1/10W
	R002	061T0603430 1F	RST CHIPR 4.3 KOHM +-1% 1/10W
	R003	061T0603180 1F	RST CHIPR 1.8 KOHM +-1% 1/10W
	R004	061T0603470 0F	RST CHIPR 470 OHM +-1% 1/10W
	R005	061T0603430 1F	RST CHIPR 4.3 KOHM +-1% 1/10W
	R006	061T0603180 1F	RST CHIPR 1.8 KOHM +-1% 1/10W
	R007	061T0603470 0F	RST CHIPR 470 OHM +-1% 1/10W
	R008	061T1206000 F	RST CHIPR 0 OHM +-5% 1/4W FENGHUA
	SW001	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
	SW002	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
	SW003	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
	SW004	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
	SW005	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
	SW006	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
	SW007	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP

IR BOARD

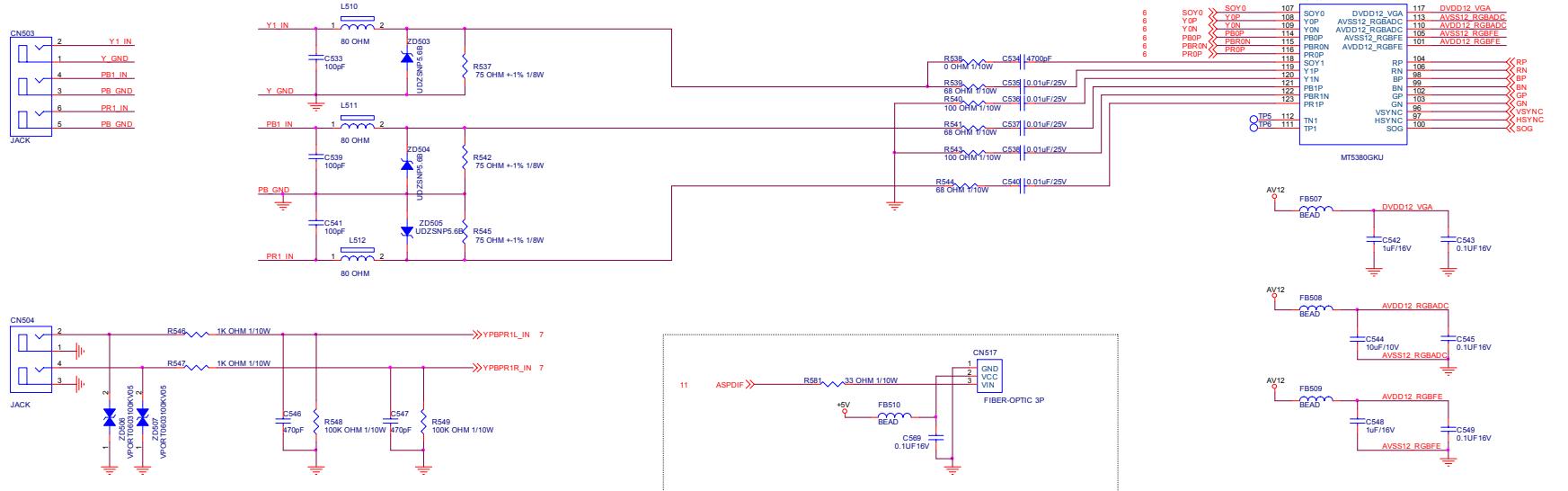
	C001	065T0603101 32	CHIP 100PF 50V X7R
	C002	065T0805106 A7	CHIP 10UF 10V Y5V 0805
	C003	065T0603104 32 GP	CHIP 0.1UF 50V X7R
	CN001	033T8032 6F S HR	CONNECTOR

	GND	095T 900593	HARNESS
	LED	081T 10 13 EL	LG-ASSIGN 339-1SURUBW/C470/A3/S1232
	R001	061T0603222	CHIP 2.2K OHM 1/16W
	R002	061T0603222	CHIP 2.2K OHM 1/16W
	R003	061T0603330	CHIP 33OHM 1/16W
	R004	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
	R005	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
	R006	061T0603110 2F	RST CHIPR 11KOHM +-1% 1/10W
	SW001	077T 603 3 TO	TACT SWITCH TS-03-BS
	U001	056T 627 33 1	IR 37.9KHZ KSM-603TM2E
	ZD001	093T 39S 34 T	UDZSNP5.6B ROHM
		Q11T5049 1	LED HOLDER

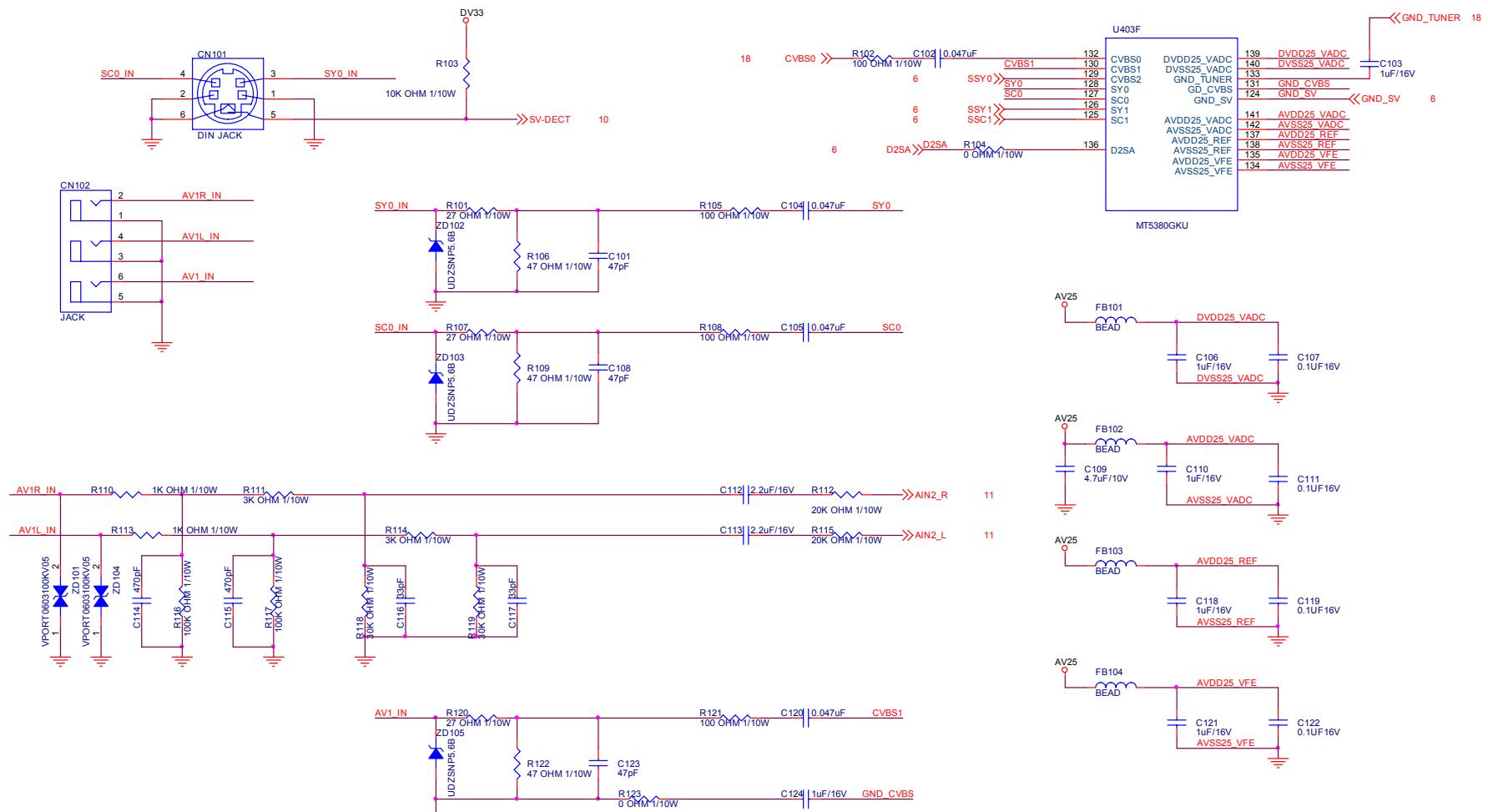
MAIN BOARD PARTS



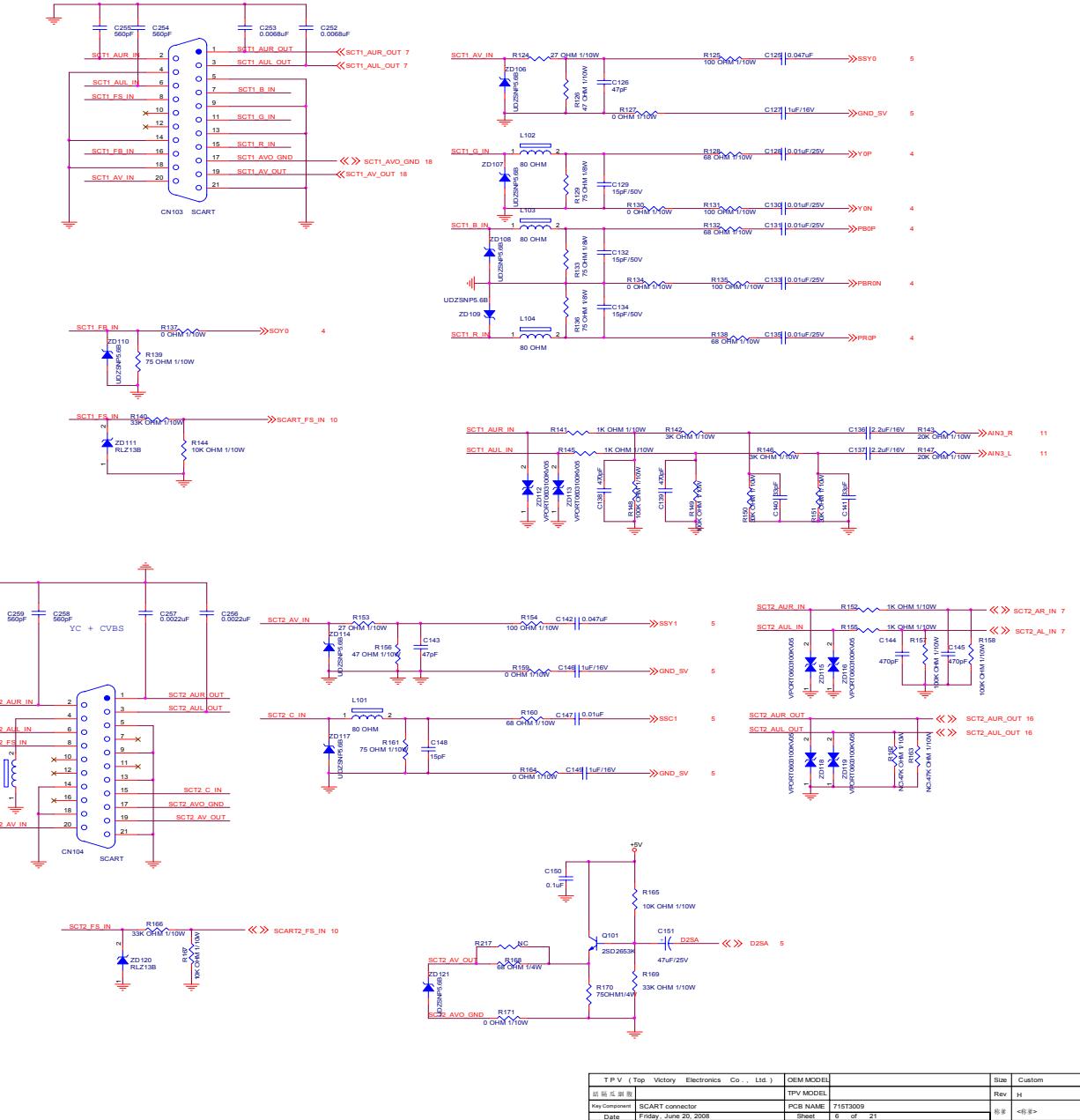
TP V (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	B
拓广电子	TPV MODEL		Rev H
Key Component VGA IN L/R	PCB NAME 715T3009		称多
Date Friday, June 20, 2008	Sheet 3 of 21		<称多>



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	Custom
基板及组件	TPV MODEL		H
Key Component	YPbPr1/R	PCB NAME	715T3009
Date	Friday, June 20, 2008	Sheet	4 of 21



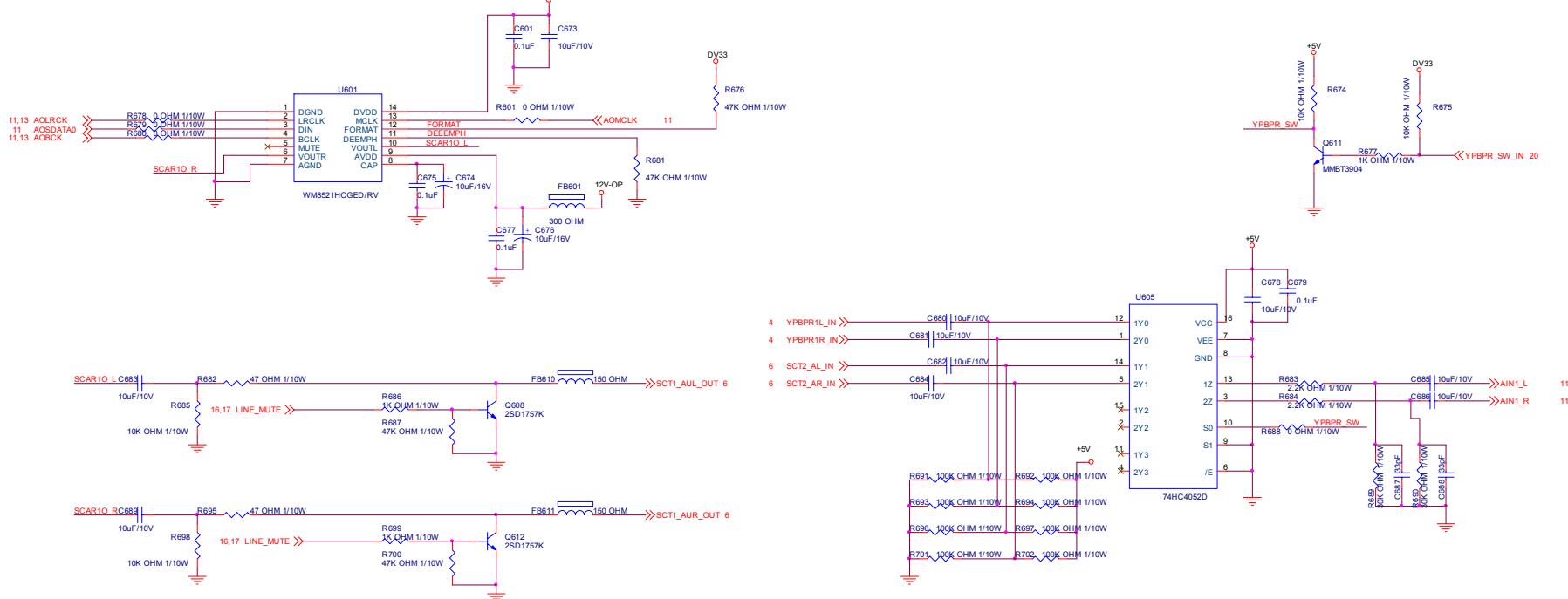
TP V (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	B
话筒瓜瓣膜	TPV MODEL		
Key Component	SCART connector	PCB NAME	715T3009
Date	Friday, June 20, 2008	Sheet	5 of 21



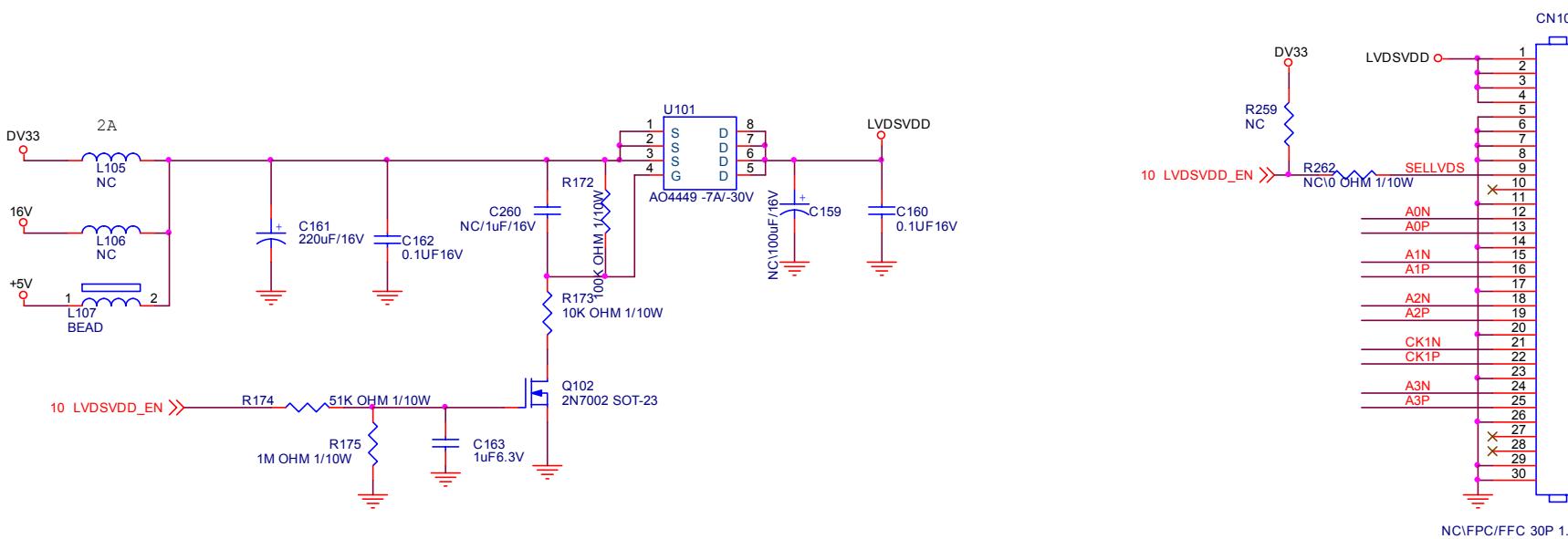
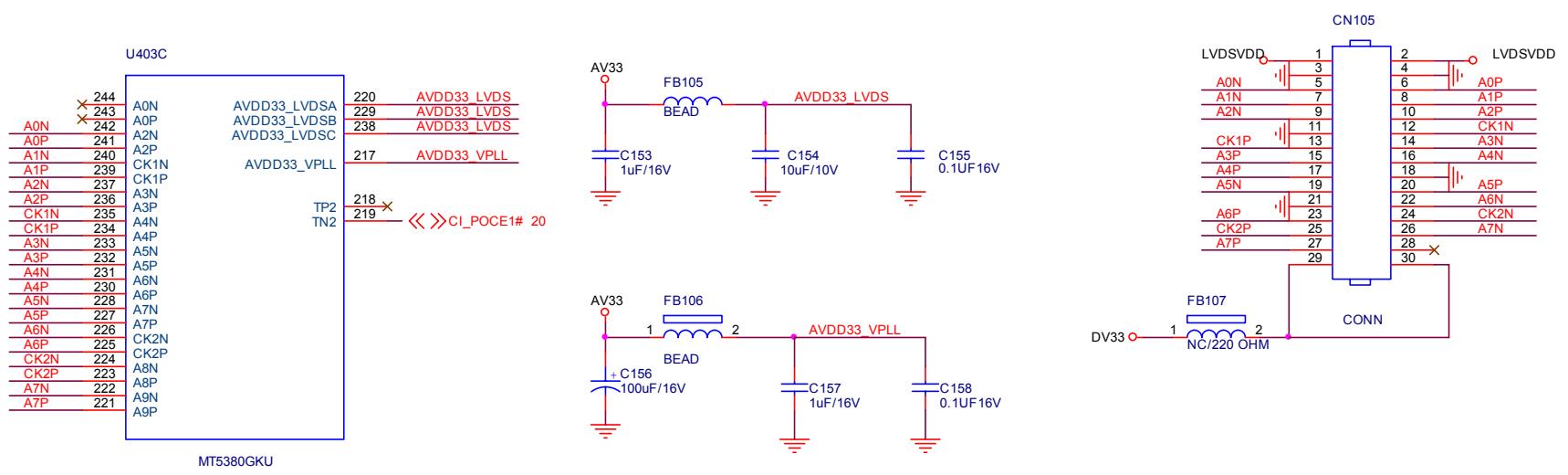
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- 67 -

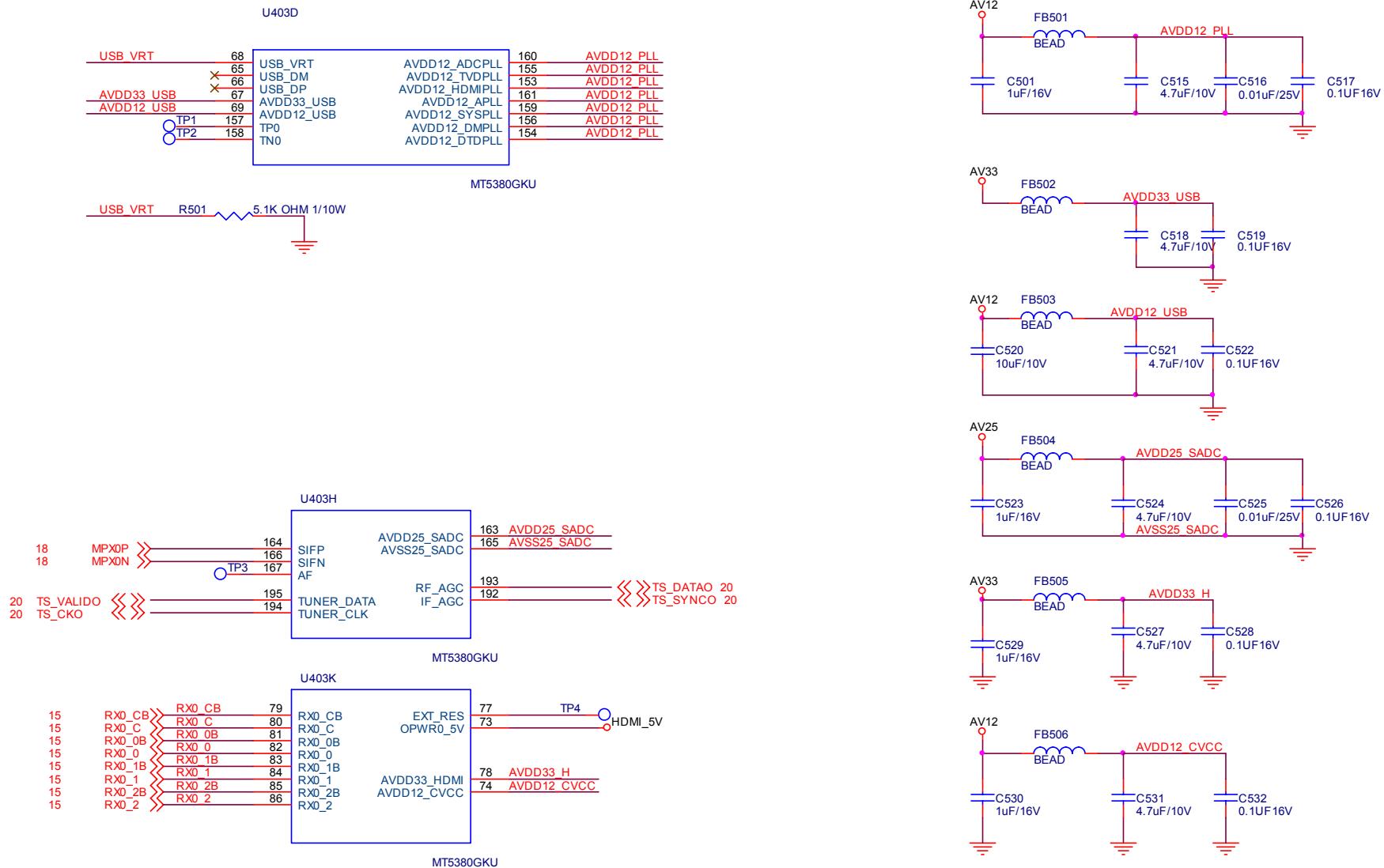
LGE Internal Use Only



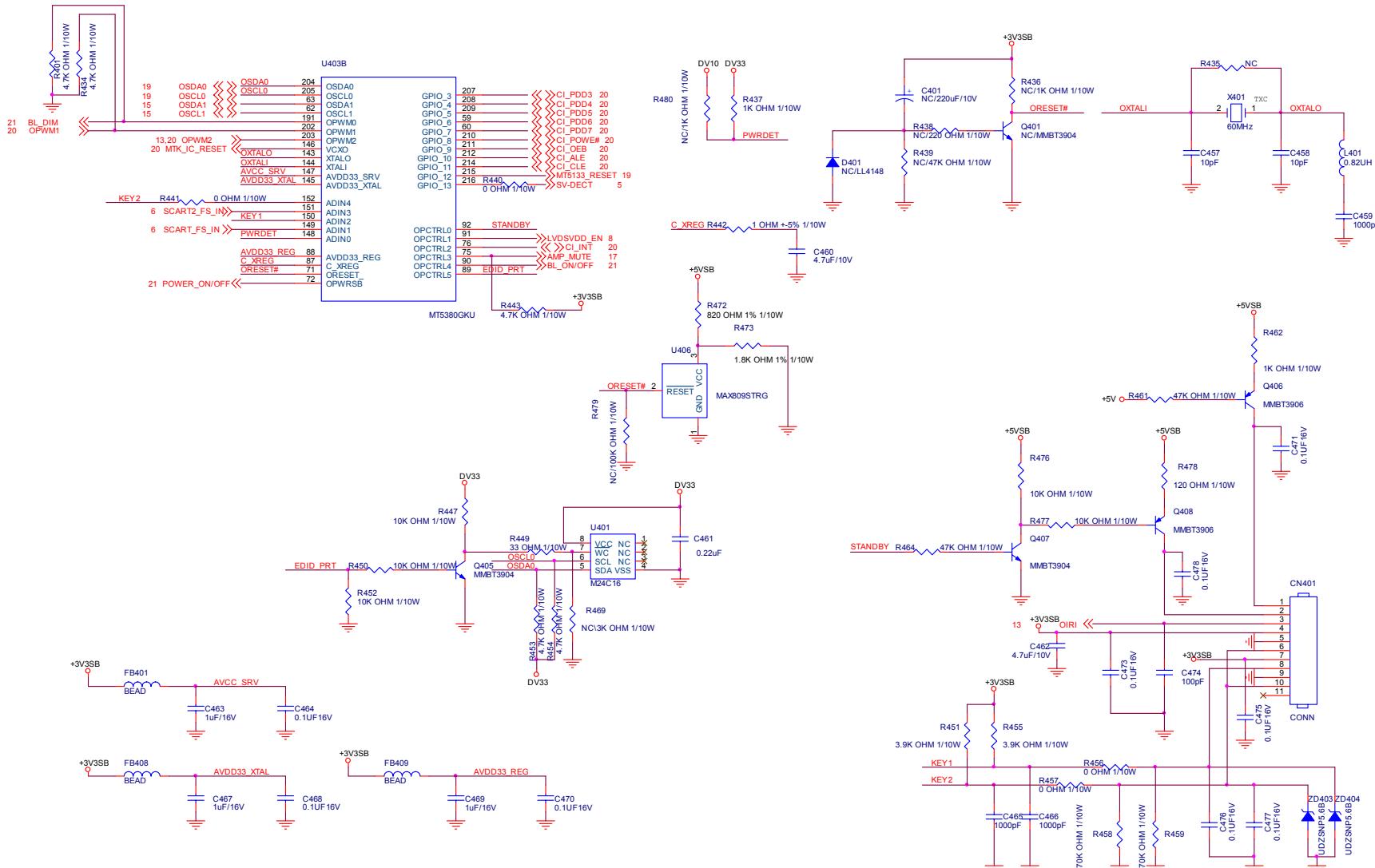
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	Custom
話筒風銅版	TPV MODEL		Rev H
Key Component SCART Audio in & out	PCB NAME 715T3009		
Date Friday, June 20, 2008	Sheet 1 of 21		<=>

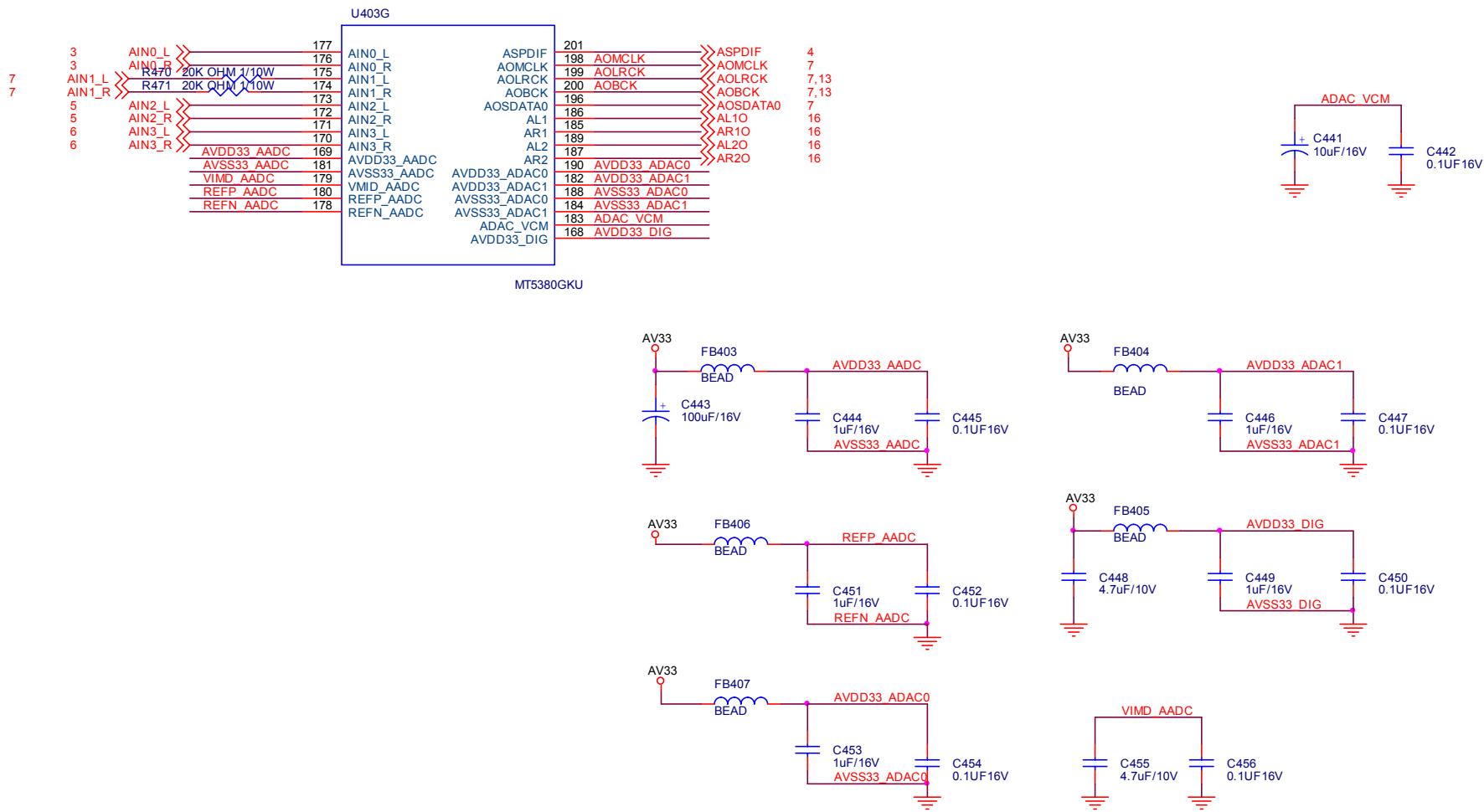


T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	A4
結隔瓜網腹	TPV MODEL	Rev	H
Key Component	LVDS OUT	PCB NAME	715T3009
Date	Friday, June 20, 2008	Sheet	8 of 21 称爹 <称爹>

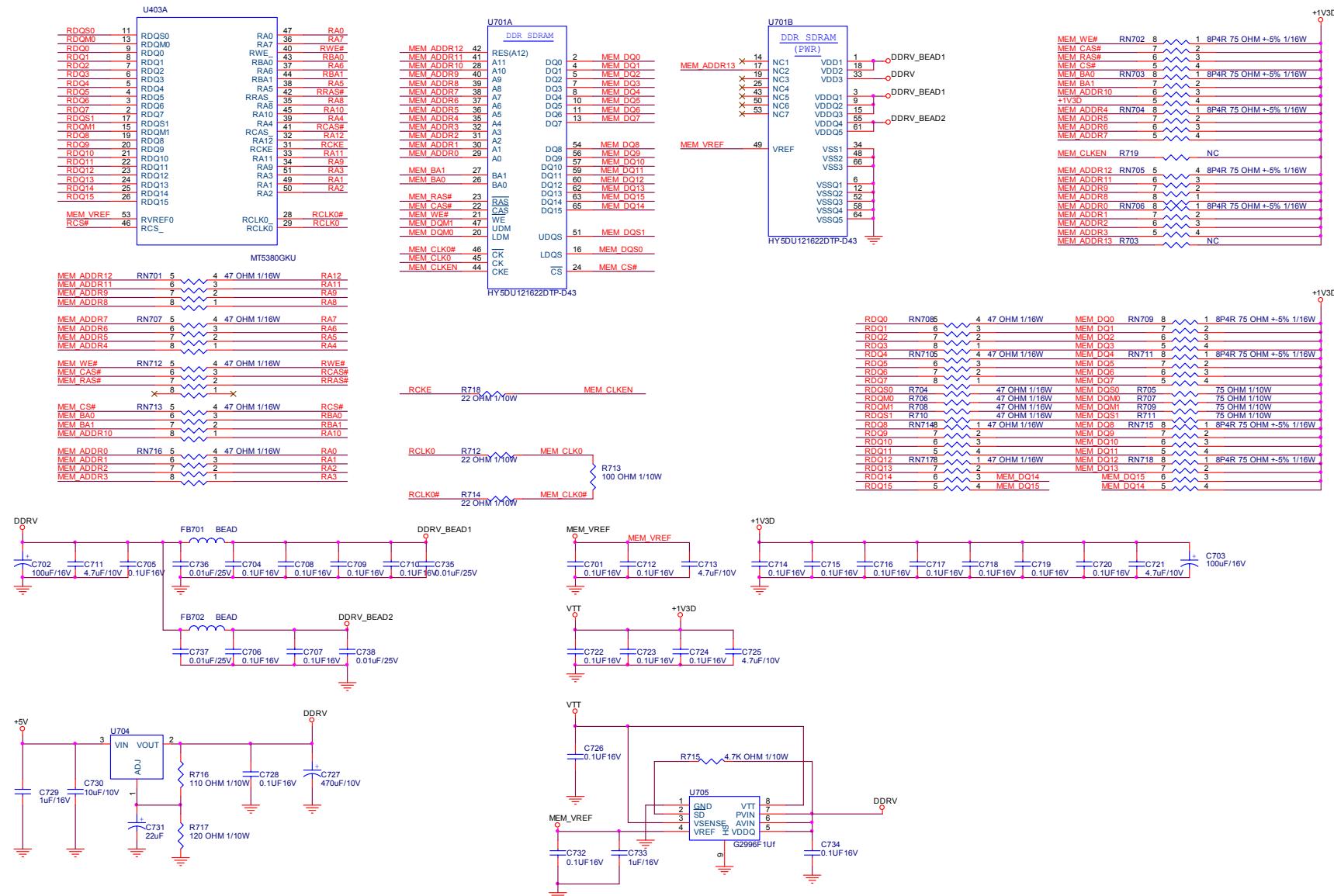


TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	A4
話隔瓜網版	TPV MODEL		Rev H
Key Component	MT5335 HDMI/PLL	PCB NAME	715T3009
Date	Friday, June 20, 2008	Sheet	9 of 21
		称爹	<称爹>





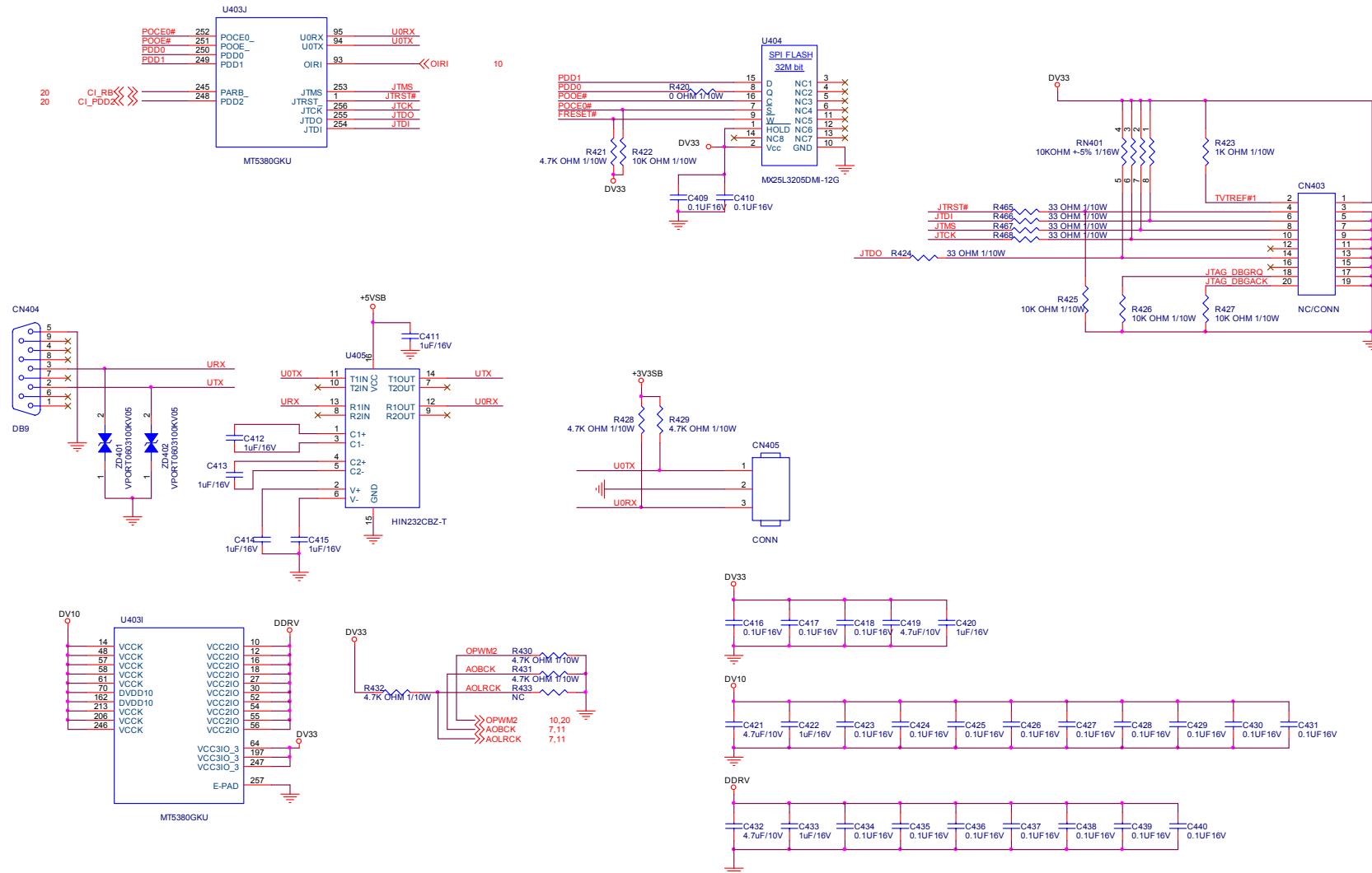
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	A4
結隔瓜網腹	TPV MODEL	Rev	H
Key Component	MT5335 Audio In/Out	PCB NAME	715T3009
Date	Friday, June 20, 2008	Sheet	11 of 21

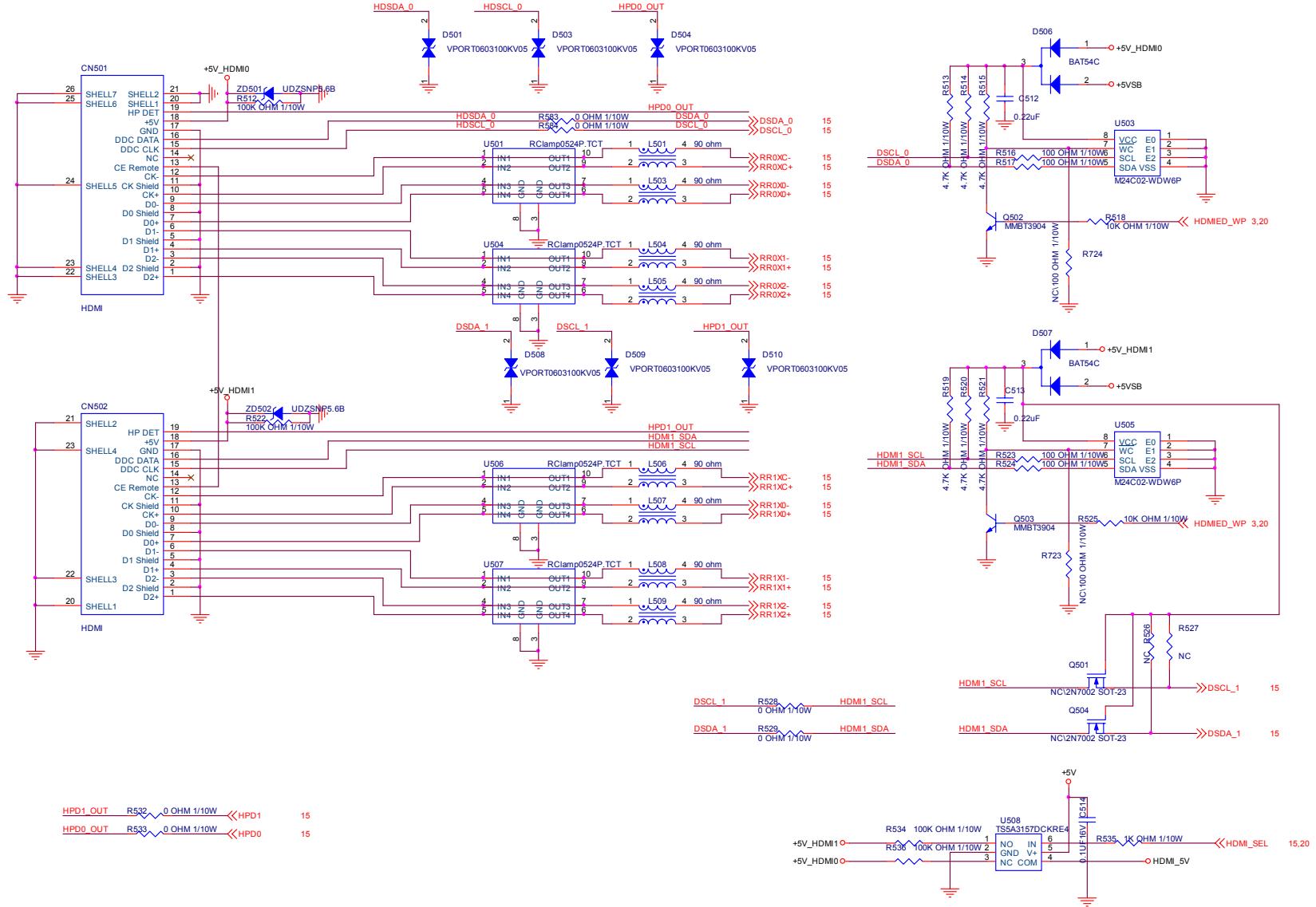


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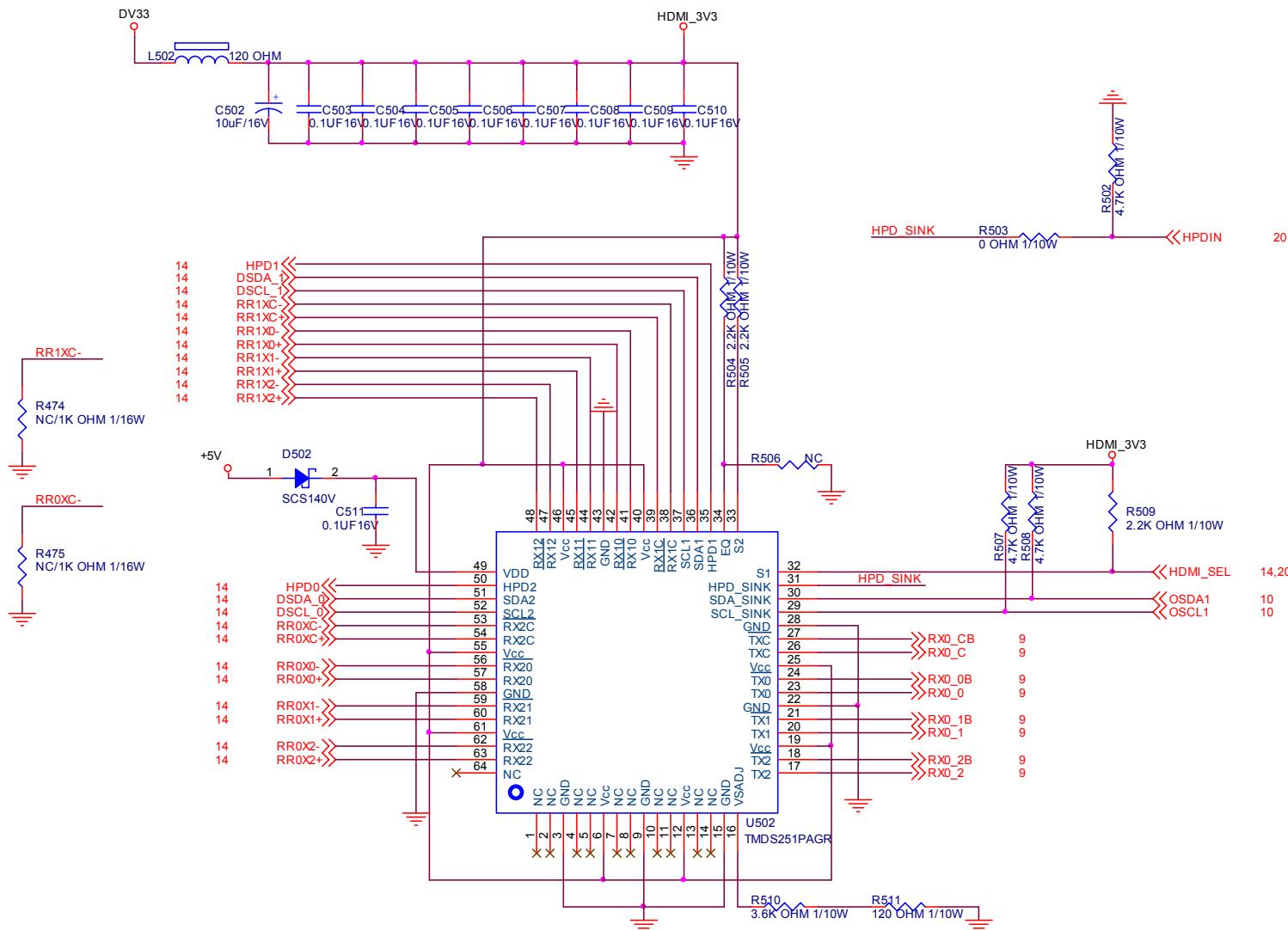
- 73 -

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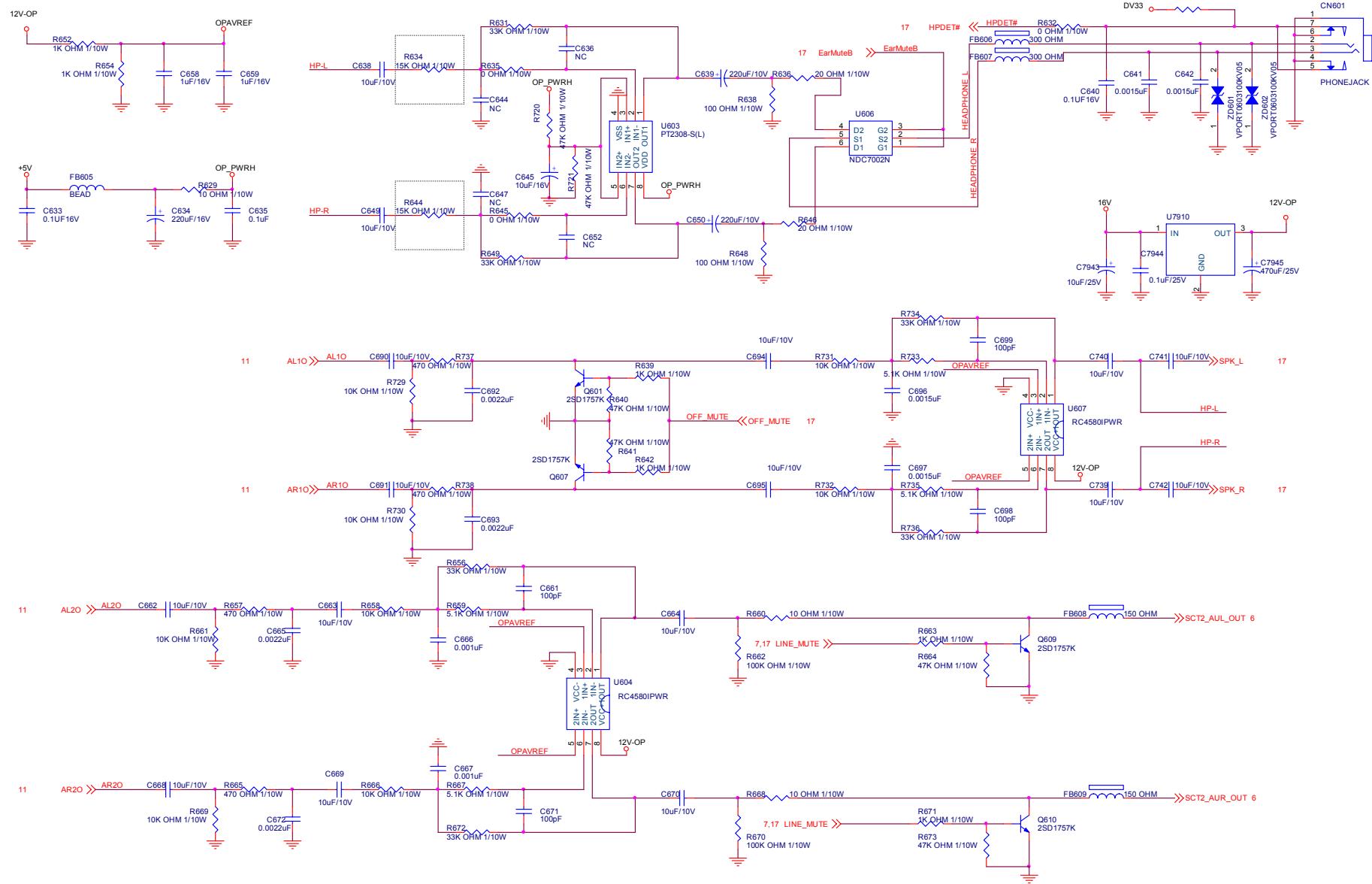




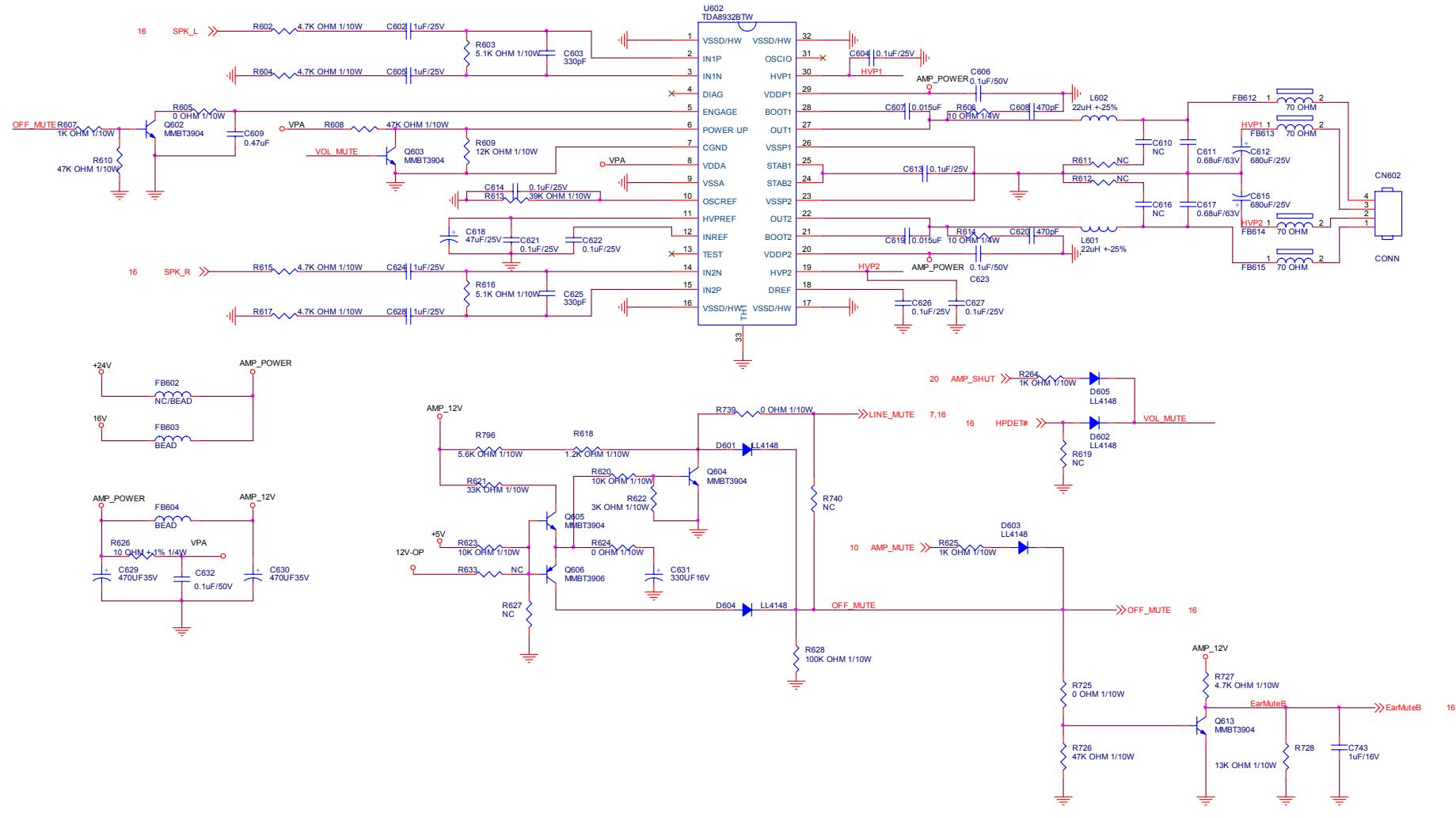
T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	Custom
适配底座板	TPV MODEL	Rev	H
Key Component	PCB NAME		
Date	HDMI Input Interface	715T3009	
	Sheet	14 of 21	称爹 <称爹>



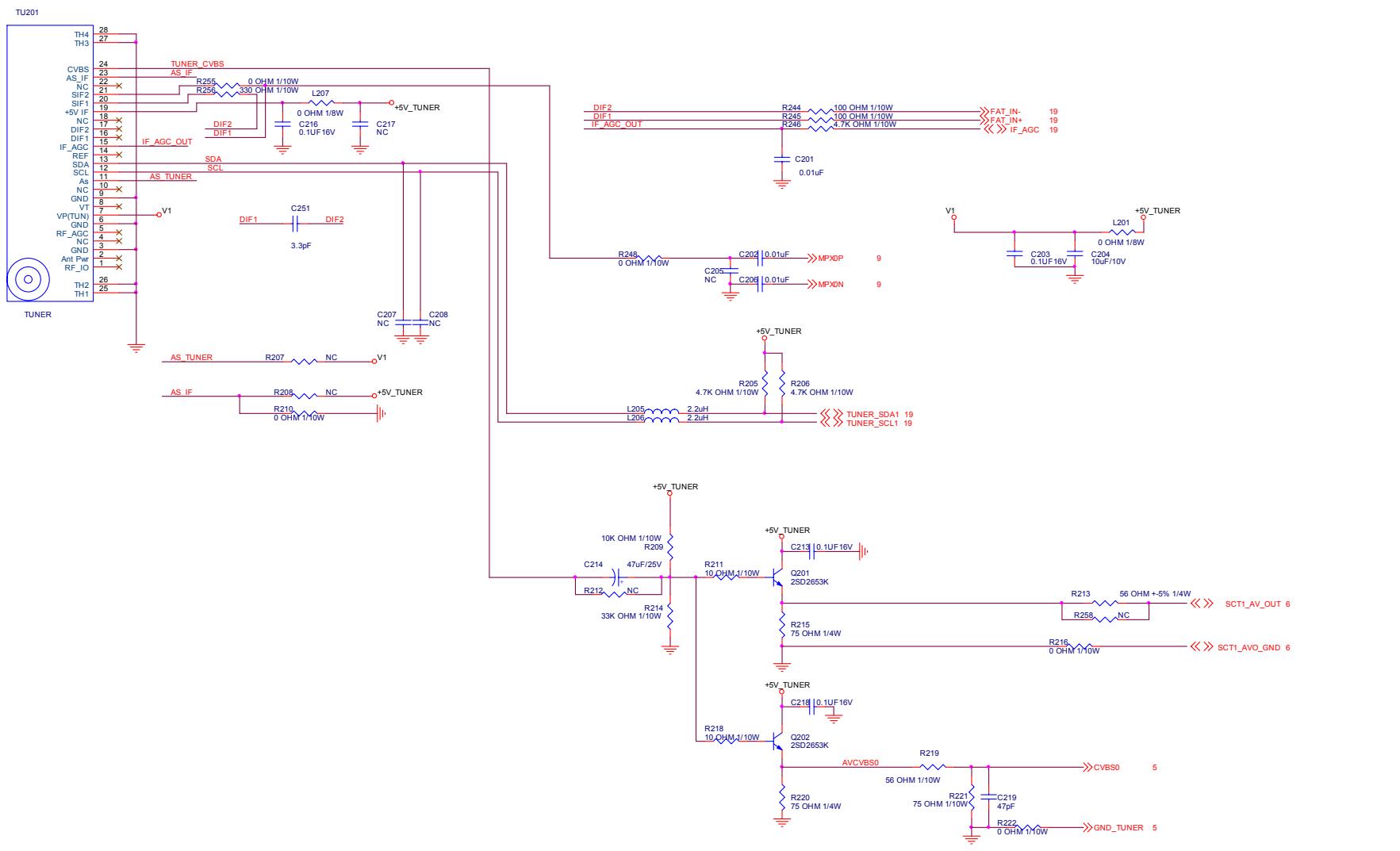
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	A4
結隔瓜網腹	TPV MODEL	Rev	H
Key Component	TMDS251 HDMI 2:1 Switch	PCB NAME	715T3009
Date	Friday, June 20, 2008	Sheet	15 of 21



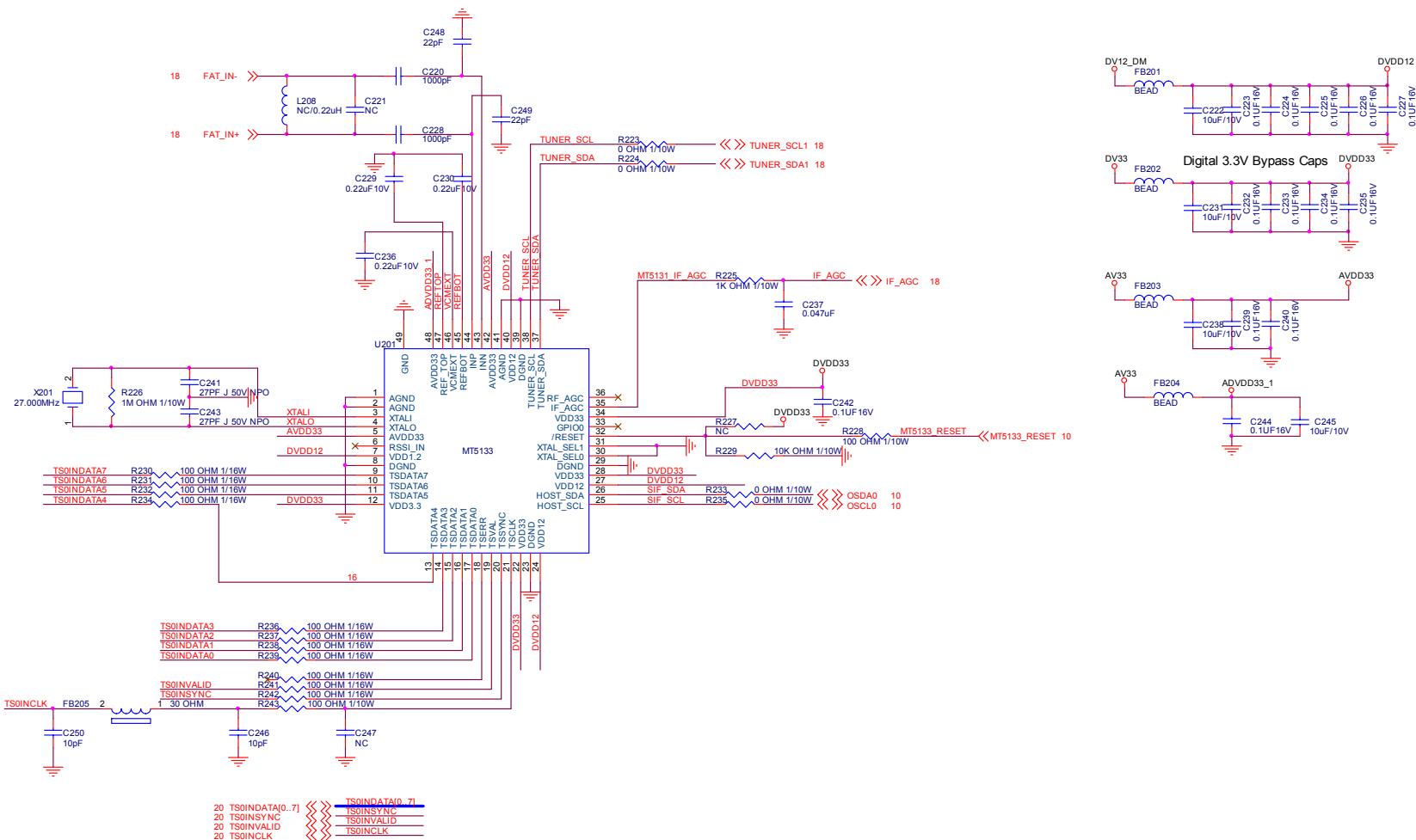
T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL		Size	A3
乐富瓜蝴蝶	TPV MODEL		Rev	H
Key Component	Line Out/HP	PCB NAME	715T3009	
Date	Friday, June 20, 2008	Sheet	16	of 21
				<称爹>



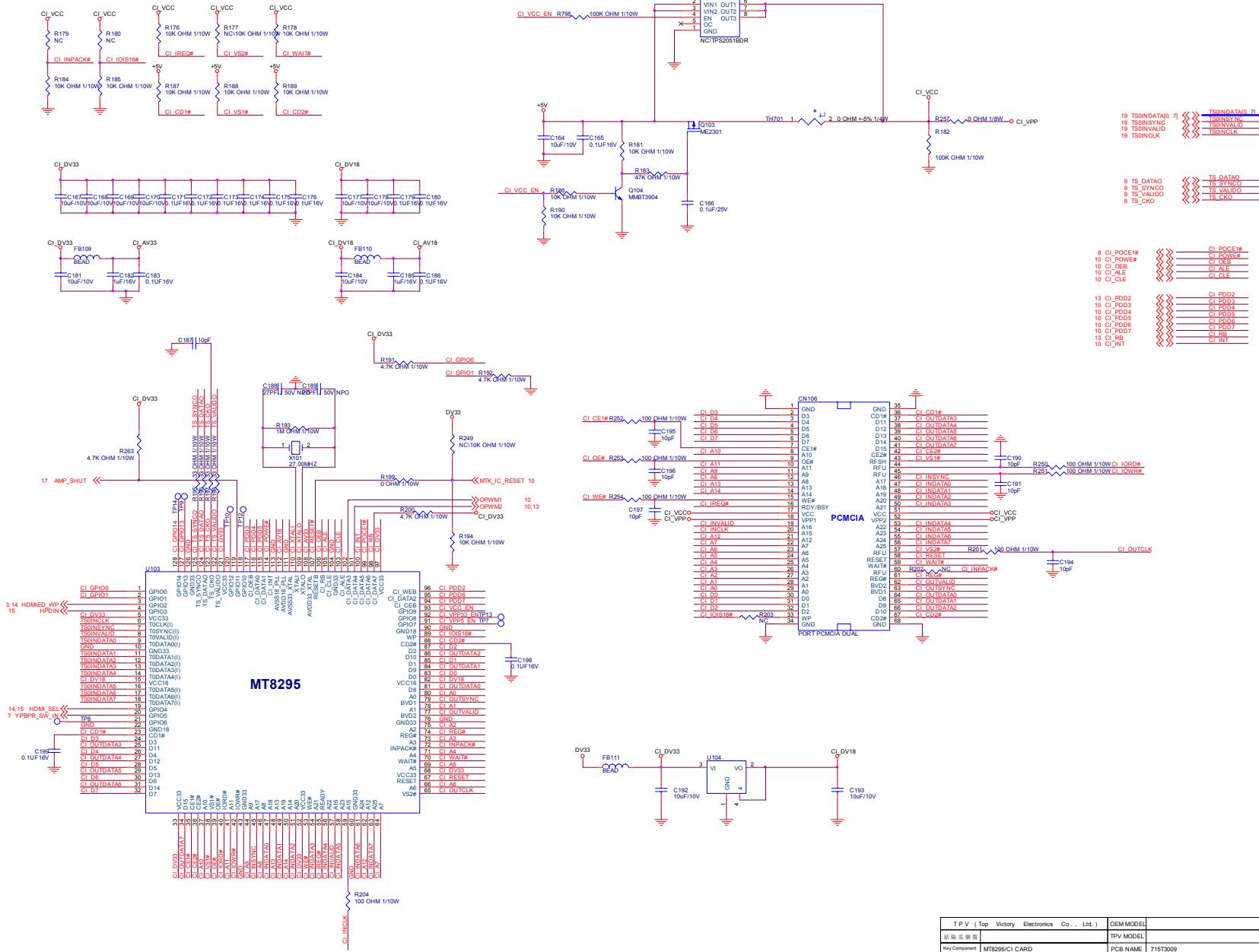
TP V (Top)	Victory Electronics Co., Ltd.)	OEM MODEL	Size
拓隔壁振膜		TPV MODEL	Rev H
Key Component	Audio MP Class D	PCB NAME 7151T3009	
Date	Friday, June 20, 2008	Sheet 17 of 21	称爹 <你爹>



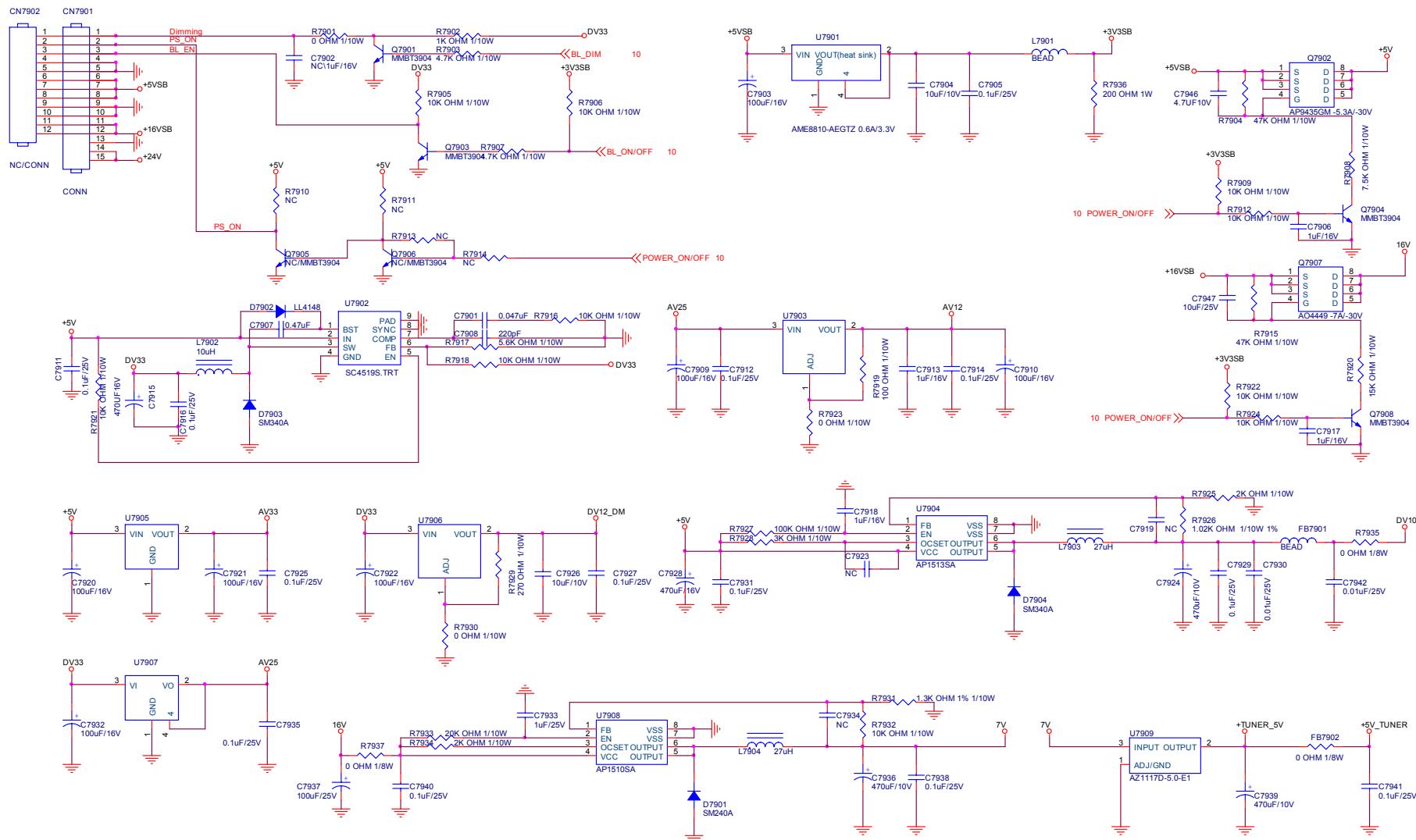
TP V (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	A3
拓鼎乐电有限公司	TPV MODEL	Rev	H
Key Component	EU Tuner Interface	PCB NAME	715T3009
Date	Monday, June 23, 2008	Sheet	18 of 21 称多 <称多>



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	A3
基層瓦鋼鐵	TPV MODEL	Rev	H
Key Component	MT5133 ASIC	PCB NAME	715T3009
Date	Friday, June 20, 2008	Sheet	19 of 21
			标爹 <你爹>

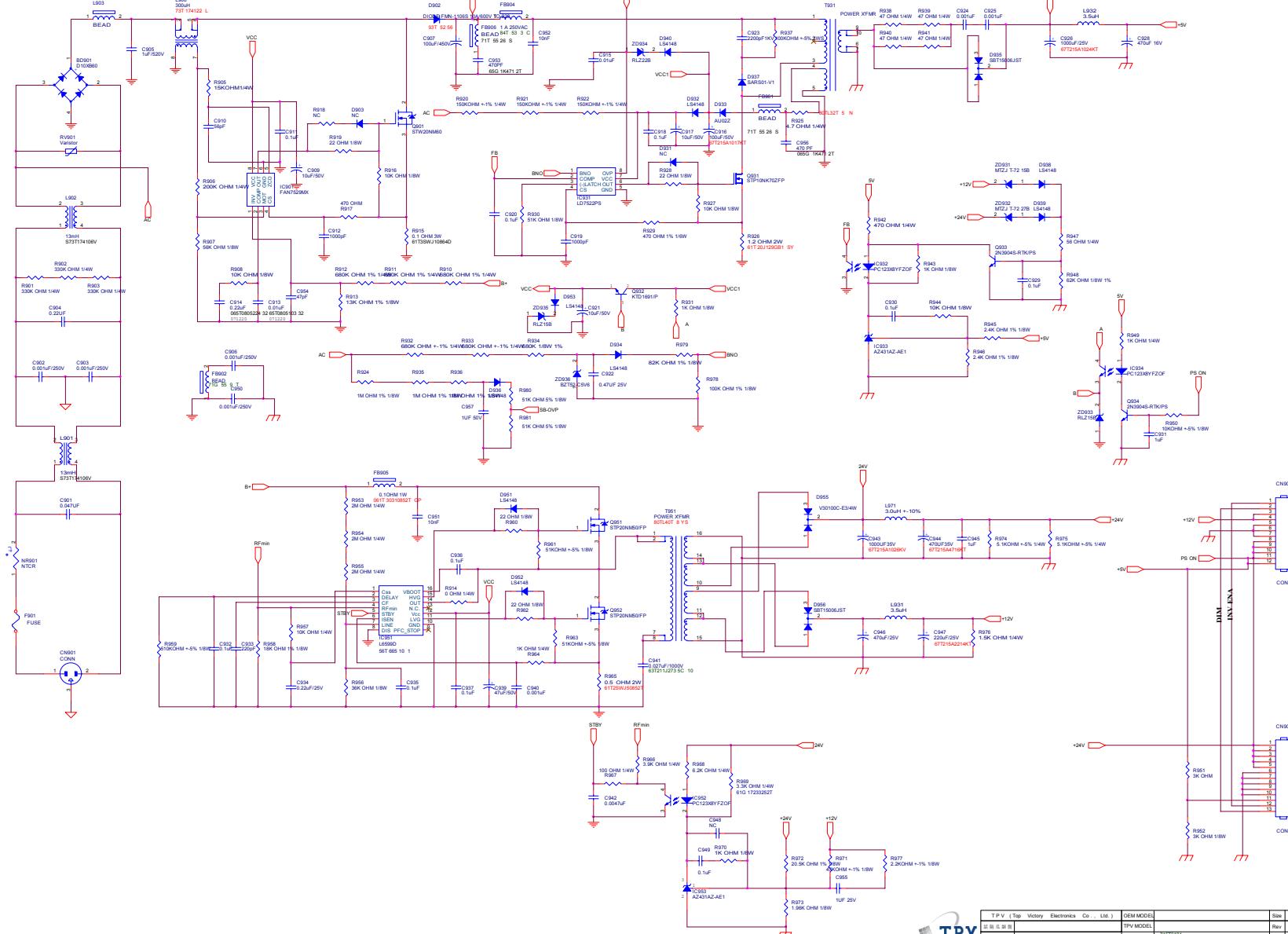


TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	Size	A2
丽丽虹解	TPV MODEL	Rev	H
Key Component	MT8295/C1 CARD	PCB NAME	71573009
Date	Friday, June 20, 2008	Sheet	20 of 21



T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL		Size	A3
拓爾瓜鋼製	TPV MODEL		Rev	H
Key Component	Power	PCB NAME	715T3009	
Date	Friday, June 20, 2008	Sheet	of 21	称重 <称量>

POWER BOARD PARTS



TPV (Top Victory Electronics Co., Ltd.)	DEM/MODEL	Spec	Custom
Key Model No.: TP POWER	TPV MODEL	Rev. 1	
Date: Friday, July 18, 2008	PCB NAME: 71031381	PCB Ver: 1.0	
	Sheet: 1 of 2	Bill of Materials	



LG Electronics Inc.

P/NO : MFL41037116

Oct., 2008
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